MHC-991AV/G99AV

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
MHC-991AV

E Model
Australian Model
PX Model
MHC-G99AV

• MHC-991AV/G99AV are composed of following models.
As for the service manual, it is issued for each component model, then, please refer to it.

COMPONENTS MODEL NAME FOR MHC-991AV/G99AV

	MHC-991AV/G99AV
COMPACT DISC DECK RECEIVER SYSTEM	HCD-H991AV
FRONT SPEAKER SYSTEM	SS-H991
CENTER SPEAKER SYSTEM	SS-CN991
REAR SPEAKER SYSTEM	SS-SR991

SPECIFICATIONS

General

Power requirements
- US, Canadian models : 120V AC, 60Hz
- AEP, UK, German, Italian models :
  220 – 230V AC, 50/60Hz
- Malaysia model : 220 – 240V AC, 50/60Hz
- Australian model : 240V AC, 50/60Hz
- Thailand model : 220V AC, 50/60Hz
- OTHER models :
  110 – 120V or 220 – 240V AC, 50/60Hz
  Adjustable with the voltage selector

Power consumption
- US model : 275W
- Canadian model : 300VA
- AEP, UK, German, Italian models : 170W
- Other models : 190W

Supplied accessories

AM loop antenna (1)
Remote RM-SE1AV (1)
Sony SUM-3 (NS) batteries (2)
FM lead antenna (1)
Speaker cords (5)
Foot (4)

Design and specifications are subject to change without notice.

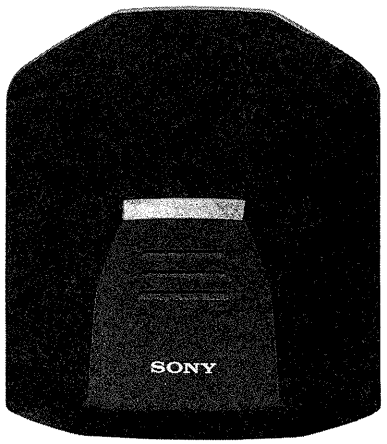
COMPACT Hi-Fi STEREO SYSTEM

SONY®

SS-SR991

SERVICE MANUAL

US Model
AEP Model
UK Model
E Model
Australian Model
Tourist Model



SPECIFICATIONS

Speaker system	Full range speaker system Magnetically shielded type
Speaker unit	10cm, cone type
Enclosure type	Bass reflex
Rated impedance	16 ohms
Dimensions	Approx. 200×90×235 mm ($7\,^{7}/_{8}\times3\,^{17}/_{32}\times9\,^{1}/_{4}$ in.) (w/h/d) incl. front grille
Mass	Approx. 1 kg (35.3 oz) per speaker

Design and specifications are subject to change without notice.

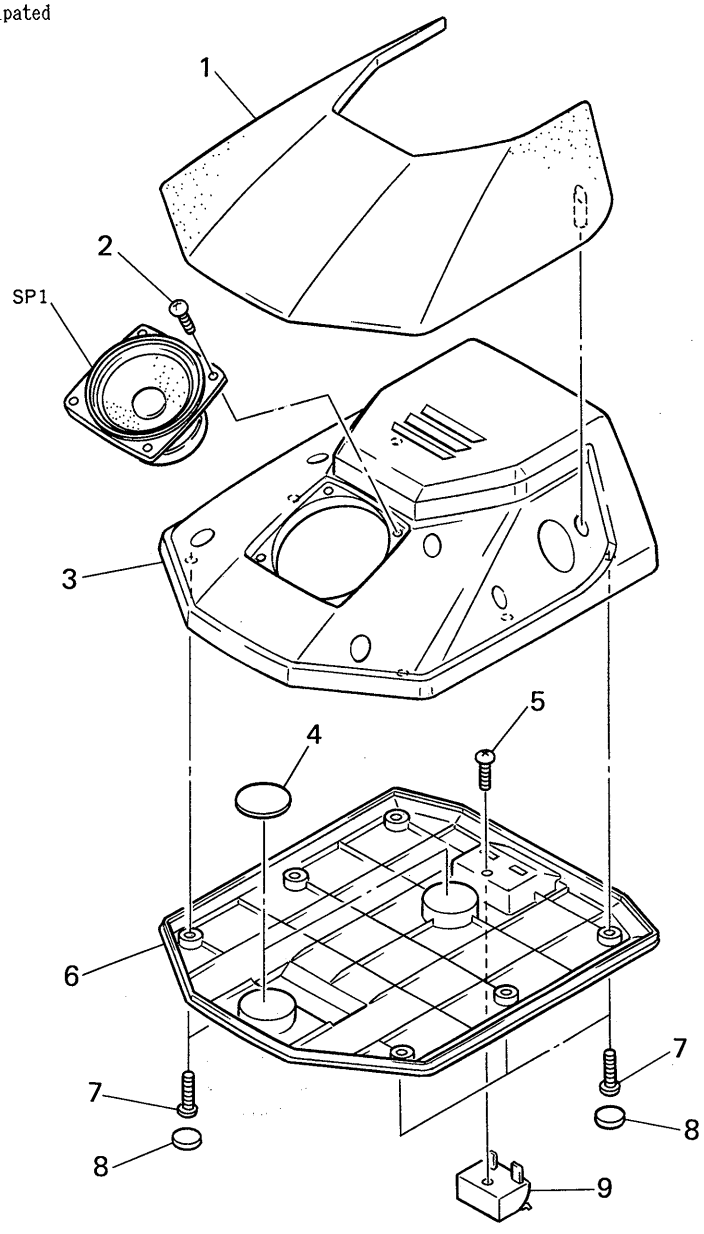
SPEAKER SYSTEM

SONY®

EXPLODED VIEW

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.



Ref. No.	Part No.	Description	Remark
1	X-4947-168-1	GRILLE ASSY, FRONT	
2	7-685-660-29	SCREW +BVTP 4X10 TYPE2 SLIT	
* 3	4-981-588-01	CABINET (UPPER)	
* 4	4-982-338-01	PLATE, COVER	
5	7-685-661-29	SCREW +BVTP 4X12 TYPE2 SLIT	
* 6	4-981-589-01	CABINET (LOWER)	
7	7-685-663-79	SCREW +BVTP 4X16 TYPE2 SLIT	
8	4-982-339-01	FOOT	
9	1-537-775-11	TERMINAL BOARD	
SP1	1-505-302-11	SPEAKER (8CM)	

****

ACCESSORIES & PACKING MATERIALS

****

	1-769-433-11	CORD, SPEAKER	
*	4-980-957-01	CUSHION (UPPER)	

English
96B0492-1
Printed in Japan

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Published by Home A & V Products Div.
Quality Engineering Dept.

Sony Corporation
Consumer A & V Products Company
Home A & V Products Div.

9-960-541-11

PARTS LIST

NOTE :

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- Abbreviations

CND	: Canadian model	MY	: Malaysia model
G	: German model	AUS	: Australian model
IT	: Italian model	AR	: Argentine model
EA	: Saudi Arabia model	TH	: Thailand model
HK	: Hong Kong model	IA	: Indonesian model
SP	: Singapore model		

	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
	1-473-608-11	COMMANDER, STANDARD (RM-SE1AV)	
	1-501-374-11	ANTENNA, LOOP	
	1-501-594-11	ANTENNA (FM) (MALAYSIA PRODUCT) (AEP)	
	1-501-659-11	ANTENNA (FM) (EA, MY, TH)	
	1-501-659-41	ANTENNA (FM) (US, CND, E, AUS, PX, SP, HK, AR, IA)	
	1-501-804-11	ANTENNA (FM) (INDONESIA PRODUCT) (AEP, UK, G, IT)	
	1-769-317-11	CORD, SPEAKER (FRONT SPEAKER 2.5m)	
	1-769-433-11	CORD, SPEAKER (SURROUND 10m)	
	3-810-949-11	MANUAL, INSTRUCTION (ENGLISH) (US, CND)	
	3-810-949-21	MANUAL, INSTRUCTION (FRENCH) (CND)	
	3-810-949-31	MANUAL, INSTRUCTION (ENGLISH) (UK)	
	3-810-949-41	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE) (PRINTED IN INDONESIA) (AEP)	
	3-810-949-51	MANUAL, INSTRUCTION (GERMAN) (G)	
	3-810-949-61	MANUAL, INSTRUCTION (GERMAN, DUTCH, ITALIAN) (PRINTED IN INDONESIA) (AEP, IT)	
	3-810-949-71	MANUAL, INSTRUCTION (DANISH, FINNISH, CHINESE) (PRINTED IN INDONESIA) (AEP)	
	3-810-949-81	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, CHINESE) (E, AUS, PX, SP, HK, AR, IA)	
	3-810-949-91	MANUAL, INSTRUCTION (ARABIC) (E, PX)	
	3-810-950-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE) (PRINTED IN MALAYSIA) (AEP)	
	3-810-950-21	MANUAL, INSTRUCTION (GERMAN, DUTCH, ITALIAN) (PRINTED IN MALAYSIA) (AEP)	
	3-810-950-31	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, CHINESE) (EA, MY)	
	3-856-776-11	MANUAL, INSTRUCTION (ENGLISH, THAI) (TH)	
	4-972-322-01	FOOT (Y) (SURROUND)	
*	4-980-428-01	CUSHION (FRONT) (HCD) (MALAYSIA PRODUCT)	
*	4-980-429-01	CUSHION (REAR) (HCD) (MALAYSIA PRODUCT)	
*	4-981-327-01	CUSHION (for SS-H991)	
	4-981-643-01	COVER, BATTERY (for RM-SE1AV)	
*	4-982-299-01	CUSHION (UPPER) (SURROUND)	
*	4-982-300-01	CUSHION (LOWER) (SURROUND)	
*	4-982-354-01	INDIVIDUAL CARTON (E, PX, SP, HK, AR, IA)	
*	4-982-355-01	INDIVIDUAL CARTON (AUS)	
*	4-982-360-01	INDIVIDUAL CARTON (US, CND)	
*	4-982-361-01	INDIVIDUAL CARTON (INDONESIA PRODUCT) (AEP, UK, G, IT)	
*	4-982-547-01	CUSHION (FRONT) (HCD) (EXCEPT MALAYSIA PRODUCT)	
*	4-982-548-01	CUSHION (REAR) (HCD) (EXCEPT MALAYSIA PRODUCT)	
*	4-983-480-01	INDIVIDUAL CARTON (MALAYSIA PRODUCT) (AEP)	
*	4-983-481-01	INDIVIDUAL CARTON (EA)	
*	4-983-482-01	INDIVIDUAL CARTON (MY)	
*	4-984-121-01	INDIVIDUAL CARTON (TH)	

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HCD-H991AV

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
PX Model

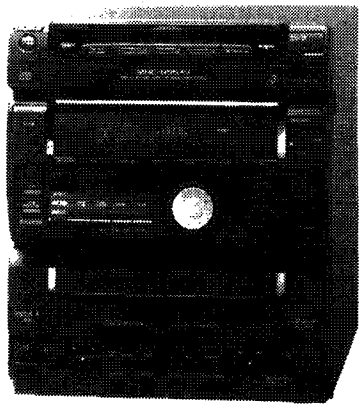


Photo: E model

HCD-H991AV is the tuner, deck, CD and amplifier section in MHC-991AV/G99AV.

CD SECTION	Model Name Using Similar Mechanism	HCD-H771/H771D
	CD Mechanism Type	CDM38-5BD19
	Base Unit Type	BU-5BD19
	Optical Pick-up Type	KSS-213BA/F-NP
TAPE DECK SECTION	Model Name Using Similar Mechanism	HCD-H771/H771D
	Tape Transport Mechanism Type	TCM-220WR2E

SPECIFICATIONS

For the U.S. model
AUDIO POWER SPECIFICATIONS
POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
With 8 ohm loads, both channels driven, from 70 – 20,000 Hz; rated 100 watts per channel minimum RMS power, with no more than 0.9 % total harmonic distortion from 250 milliwatts to rated output (FRONT SPEAKER).

CD player section

System: Compact disc and digital audio system
Laser: Semiconductor laser (λ = 780 nm)
Emission duration: continnous
Laser output: Max. 44.6μ W*
* This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.

Frequency response
2 Hz – 20 kHz (±0.5 dB)
Wavelength 780 – 790 nm
Signal-to-noise ratio
More than 90 dB
Dynamic range More than 90 dB
CD DIGITAL OUT OPTICAL
(Square optical connector jack, rear panel)
Wavelength 600 nm
Output Level – 18 dBm

Tuner section
FM stereo, FM/AM superheterodyne tuner

FM tuner section
Tuning range 87.5 – 108.0 MHz
Antenna FM lead antenna
Antenna terminals
75 ohm unbalanced
Intermediate frequency
10.7 MHz

AM tuner section
Tuning range
US, Canadian models:
AM: 531 – 1,710 kHz (with the tuning interval set at 9 kHz)
530 – 1,710 kHz (with the tuning interval set at 10 kHz)
German, Italian models:
AM: 531 – 1,602 kHz (with the interval set at 9 kHz)
AEP, UK models:
MW: 531 – 1,602 kHz (with the interval set at 9 kHz)
LW: 153 – 279 kHz (with the interval set at 3 kHz)
Australian, Argentine models:
AM: 531 – 1,602 kHz (with the tuning interval set at 9 kHz)
530 – 1,710 kHz (with the tuning interval set at 10 kHz)

— Continue on next page —

MICROFILM

COMPACT DISC DECK RECEIVER

SONY®

E2, Thailand models:
MW: 531 – 1,602 kHz (with the interval set at 9 kHz)
530 – 1,710 kHz (with the interval set at 10 kHz)
Other models:
MW: 531 – 1,602 kHz (with the interval set at 9 kHz)
530 – 1,710 kHz (with the interval set at 10 kHz)
SW: 5.95 – 17.90 MHz
Antenna: AM loop antenna, External antenna terminals
Intermediate frequency: 450 kHz

Amplifier section

US, Canadian models:
Continuous RMS power output
Front speakers: 120W+120W (8 ohms at 1 kHz, 5% THD)
Rear speakers: 12W+12W (16 ohms at 1 kHz, 5% THD)
Center speakers: 25W (8 ohms at 1 kHz, 5% THD)
AEP, UK, German, Italian models:
DIN power output
Front speakers: 50W+50W (8 ohms at 1 kHz, DIN)
Rear speakers: 10W+10W (16 ohms at 1 kHz, DIN)
Center speakers: 25W (8 ohms at 1 kHz, DIN)
Continuous RMS power output
Front speakers: 60W+60W (8 ohms at 1 kHz, 10% THD)
Rear speakers: 12W+12W (16 ohms at 1 kHz, 10% THD)
Center speakers: 30W (8 ohms at 1 kHz, 10% THD)
Music power output
Front speakers: 105W+105W (8 ohms at 1 kHz, 10% THD)
Rear speakers: 20W+20W (16 ohms at 1 kHz, 10% THD)
Center speakers: 45W (8 ohms at 1 kHz, 10% THD)
Other models:
Peak music power output: 1,200W
Continuous RMS power output
Front speakers: 80W+80W (8 ohms at 1 kHz, 5% THD)
Rear speakers: 10W+10W (16 ohms at 1 kHz, 5% THD)
Center speakers: 25W (8 ohms at 1 kHz, 5% THD)
Inputs
VIDEO/MD IN (phono jacks): voltage 250 mV, impedance 47 kilohms
MIX MIC (phone jacks): sensitivity 1 mV, impedance 10 kilohms
Outputs
VIDEO/MD OUT (phono jacks): voltage 250 mV, impedance 1 kilohms
PHONES (stereo phone jack): accepts headphones of 8 ohms or more.
FRONT SPEAKER: accepts impedance of 8 to 16 ohms.
REAR SPEAKER: accepts impedance of 16 ohms.
CENTER SPEAKER: accepts impedance of 8 to 16 ohms.
SUPER WOOFER: Voltage 250 mV, impedance 1 kilo ohms.

Tape player section

Recording system: 4-track 2-channel stereo
Frequency response
(DOLBY NR OFF)
40 – 13,000 Hz (±3 dB), using Sony TYPE I cassette
40 – 14,000 Hz (±3 dB), using Sony TYPE II cassette
Wow and flutter
±0.15% W. Peak (IEC)
0.1% W. RMS (NAB)
±0.2% W. Peak (DIN)

General

Power requirements
US, Canadian models: 120V AC, 60 Hz
AEP, UK, German, Italian models: 220 – 230V AC, 50/60 Hz
Malaysia model: 220 – 240V AC, 50/60 Hz
Australian model: 240V AC, 50/60 Hz
Thailand model: 220V AC, 50/60 Hz
Other models: 110 – 120V or 220 – 240V AC, 50/60 Hz
Adjustable with the voltage selector
Power consumption
US model: 275W
Canadian model: 300 VA
AEP, UK, German, Italian models: 170W
Other models: 190W
Dimensions: Approx. 280 x 325 x 360 mm (11 1/8 x 12 7/8 x 14 1/4 in) (w/h/d) incl. projecting parts and controls
Mass: Approx. 10.4 kg (22 lb 2 oz)

Design and specifications are subject to change without notice.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol ⧈ are trademarks of Dolby Laboratories Licensing Corporation.

* Manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby", the double-D symbol ⧈ are "Pro Logic" are trademarks of Dolby Laboratories Licensing Corporation.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

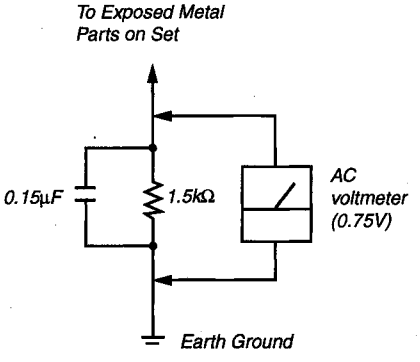


Fig. A. Using an AC voltmeter to check AC leakage.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

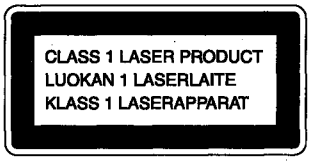
Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

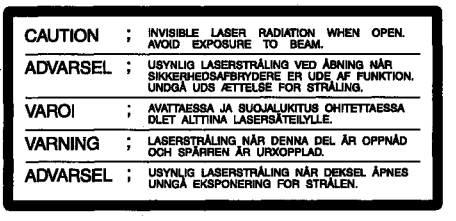
Flexible Circuit Board Repairing

- Keep the temperature of soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.



This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.


CAUTION ; INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.
ADVARSEL ; USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDS ÆTTELSE FOR STRÅLING.
VARO! ; AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA LASERSÄTEILYLLE.
VARNING ; LASERSTRÅLING NÄR DENNA DEL ÄR OPPNÅD OCH SPÄRREN ÄR URKOPPLAD.
ADVARSEL ; USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN.

This caution label is located inside the unit.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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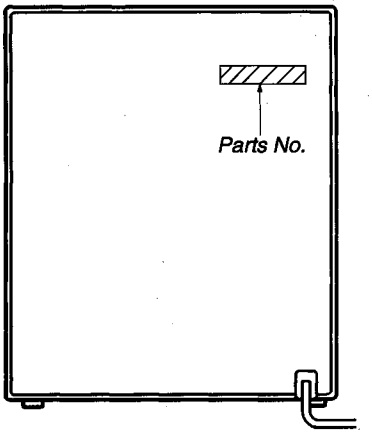
MODEL IDENTIFICATION
— BACK PANEL —



- Abbreviation
  CND: Canadian model
  G: German model
  IT: Italian model
  EA: Saudi Arabia model
  HK: Hong Kong model
  SP: Singapore model
  MY: Malaysia model
  AUS: Australian model
  AR: Argentine model
  TH: Thailand model
  IA: Indonesian model
  E2: Without SW tuner model
  E3: With SW tuner model

PARTS No.	MODEL	PRODUCT COUNTRY
4-979-583-4☐	US model	INDONESIA
4-979-583-5☐	Canadian model	INDONESIA
4-979-583-0☐	AEP model	INDONESIA
4-979-583-6☐	AEP model	MALAYSIA
4-979-583-1☐	UK model	INDONESIA
4-979-583-2☐	German model	INDONESIA
4-979-583-3☐	Italian model	INDONESIA
4-979-584-0☐	E2, E3, IA, PX model	INDONESIA
4-979-584-1☐	EA model	MALAYSIA
4-979-584-8☐	Malaysia model	MALAYSIA
4-979-584-5☐	Singapore model	INDONESIA
4-979-584-7☐	Hong Kong model	INDONESIA
4-979-584-6☐	Argentine model	INDONESIA
4-979-584-2☐	Australian model	INDONESIA
4-979-584-9☐	Thailand model	THAILAND

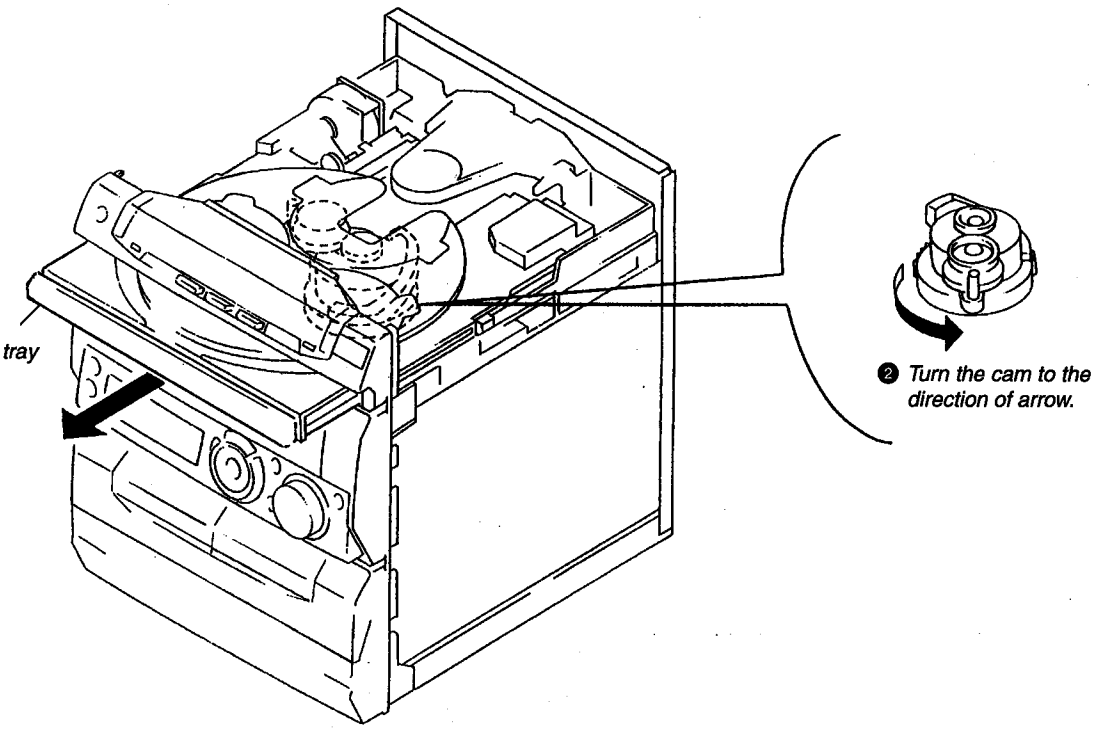
SECTION 1
SERVICING NOTE

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

HOW TO OPEN THE DISC TRAY WHEN POWER SWITCH TURNS OFF

❶ *Remove the Case*



❸ *Pull-out the disc tray*

❷ *Turn the cam to the direction of arrow.*

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

[Switching the channel step 9 KHz/10 KHz]

Press [ENTER/NEXT] button and [POWER] button simultaneously to switch the AM channel step 9 KHz and 10 KHz. Be sure not to change with carelessness.

[FL Display Tube, LED All Lit and Key Check mode]

When the [TUNER/BAND], [DISPLAY/DEMO], and [MENU 2] buttons are pressed simultaneously, the FL display tube and LEDs will all light up. Press any button to enter the key check mode.
When the key check mode is entered, the FL display tube displays "K 1 J0 V0". Each time a button is pressed, the counter increases in the following order, K 2 → K 3 → K 4.
If buttons already pressed once are pressed again, the counter will not increase. When the [VOLUME] knob is rotated in the + direction, the count increases in the following order.
V1 → V2 → V3.
When rotated in the – direction, it decreases in the following order.
V0 → V9 → V8.

When the AMS dial is rotated in the clockwise direction, the count increases in the following order.
J1 → J2 → J3.
When rotated in the counterclockwise direction, it decreases in the following order.
J0 → J9 → J8.
To exit form the test mode, press the [TUNER/BAND], [DISPLAY/DEMO], [MENU 2] buttons simultaneously again.

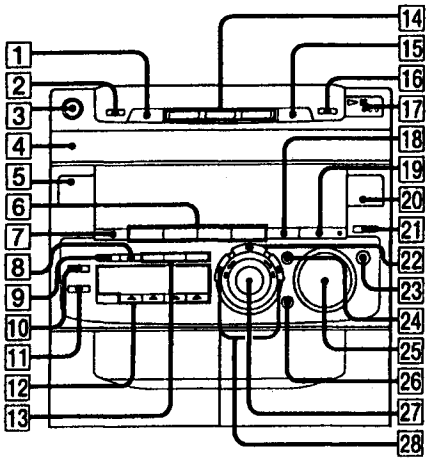
SECTION 2
GENERAL

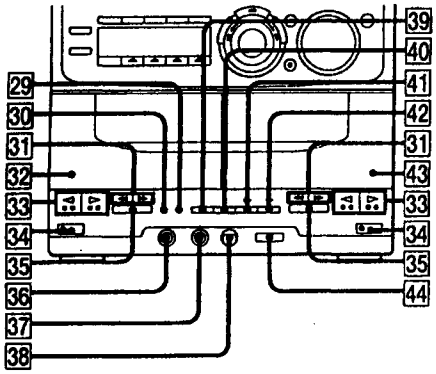
This section is extracted from instruction manual.

Index to Parts and Controls

Refer to the pages indicated in parentheses for details on how to use the controls. Controls with an asterisk have indicators on themselves.

Front Panel



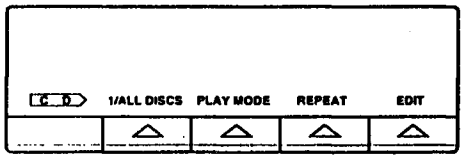


1 DISC SKIP EX-CHANGE button (7)
2 LOOP button (11)
3 POWER switch (7)
4 Disc tray (7)
5 TIMER button (26)
6 MENU 1 – 4 buttons (20)
7 DISPLAY/DEMO button (5)
8 CLIP ERASE button (10)
9 CLIP PLAY button (10)
10 DSP button (21)
11 DOLBY PRO LOGIC button (24)
12 MULTI FUNCTION CONTROL buttons (33)
13 CLIP A – C buttons* (10)
14 DISC 1 – 3 buttons* (7)
15 ⏏ OPEN/CLOSE button (7)
16 □ (stop) button (7)
17 ▷II (play /pause) button* (7)
18 P FILE button (22)
19 EFFECT ON/OFF button* (20)
20 TUNER/BAND button* (12)
21 FUNCTION button (8)
22 ENTER/NEXT button (9)
23 GROOVE button* (20)
24 DBFB button (20)
25 VOLUME control (20)
26 SONIC FORMATION button (22)
27 JOG dial (7)
28 FREQUENCY +/– buttons (21)
29 DIRECTION button (15)
30 DOLBY NR button (15)
31 ◁◁/▷▷ (rewind/fast forward) button (15)
32 Deck A (15)
33 ◁/▷ (reverse side play/front side play) button* (15)
34 ⏏ EJECT button (15)
35 □ (stop) button (15)
36 PHONES jack (20)
37 MIX MIC jack (28)
38 MIC LEVEL knob (28)
39 HIGH SPEED DUBBING button (19)
40 CD SYNCHRO button (16)
41 O REC button* (16)
42 II PAUSE button* (16)
43 Deck B (15)
44 KARAOKE PON/MPX button (28)

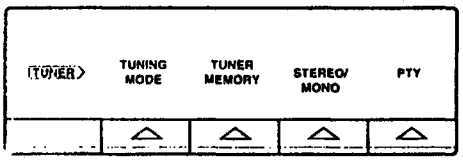
MULTI FUNCTION CONTROL Buttons

The buttons you can operate the CD player, tuner and the timer light up.

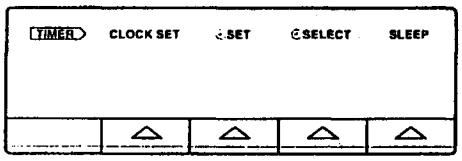
CD player



Tuner

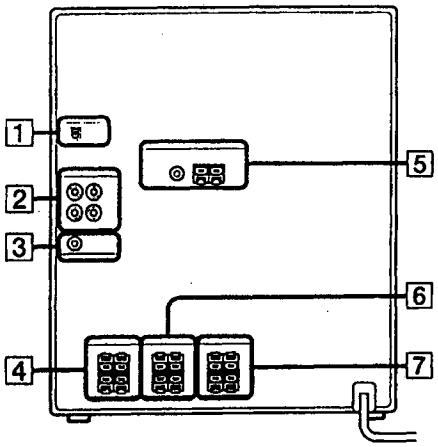


Timer



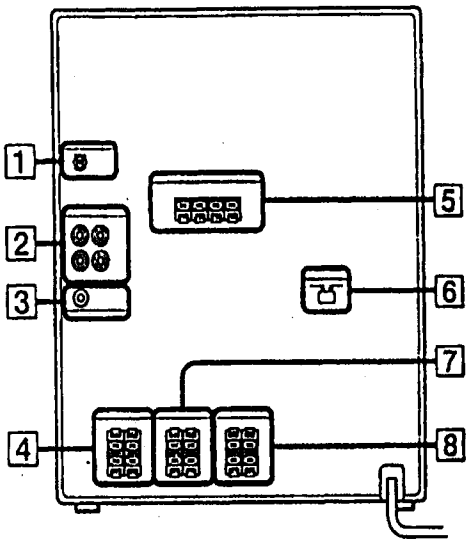
Rear Panel

(US, Canadian, AEP, UK, German, Italian, Malaysia, Australian, Thailand models)



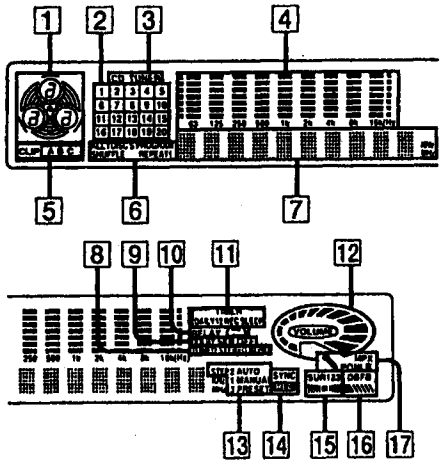
[1] CD DIGITAL OUT OPTICAL jack (29)
[2] VIDEO/MD IN/OUT jacks (24, 29)
[3] SUPER WOOFER Jack (29)
[4] FRONT SPEAKER L/R connectors (4)
[5] ANTENNA terminals (4)
[6] REAR SPEAKER L/R connectors (4)
[7] CENTER SPEAKER L/R connectors (4)

(E, Saudi Arabia, Hong Kong, Singapore, Argentine, Indonesian, PX models)



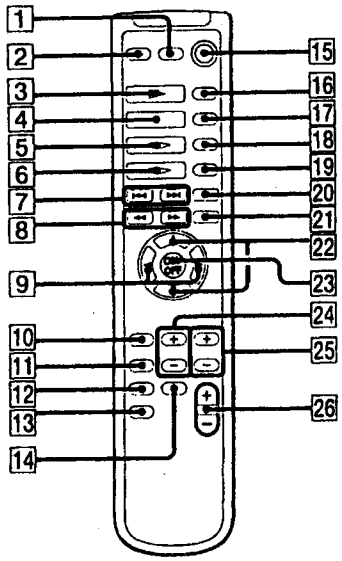
[1] CD DIGITAL OUT OPTICAL jack (28)
[2] VIDEO/MD IN/OUT jacks (23, 28)
[3] SUPER WOOFER jack (28)
[4] FRONT SPEAKER L/R connectors (4)
[5] ANTENNA terminals (4)
[6] Voltage selector (5)
[7] REAR SPEAKER L/R connectors (4)
[8] CENTER SPEAKER L/R connectors (4)

Display Window



[1] Disc tray indicator
[2] Music calendar (7)
[3] CD/TUNER indicator (7, 12)
[4] Graphic Equalizer indicator (21)
[5] CLIP indicators (10)
[6] CD playback indicators (8, 9)
[7] Multi display
[8] Tuning indicator (12)
[9] DOLBY NR indicator (16)
[10] Direction mode indicators (15)
[11] Timer indicators (26)
[12] VOLUME indicators
[13] Tuner indicators (12, 13)
[14] SYNC REC indicator
[15] SUR 1/2/3 indicators (21)
[16] DBFB indicator (20)
[17] Karaoke PON/MPX indicators (28)

Remote



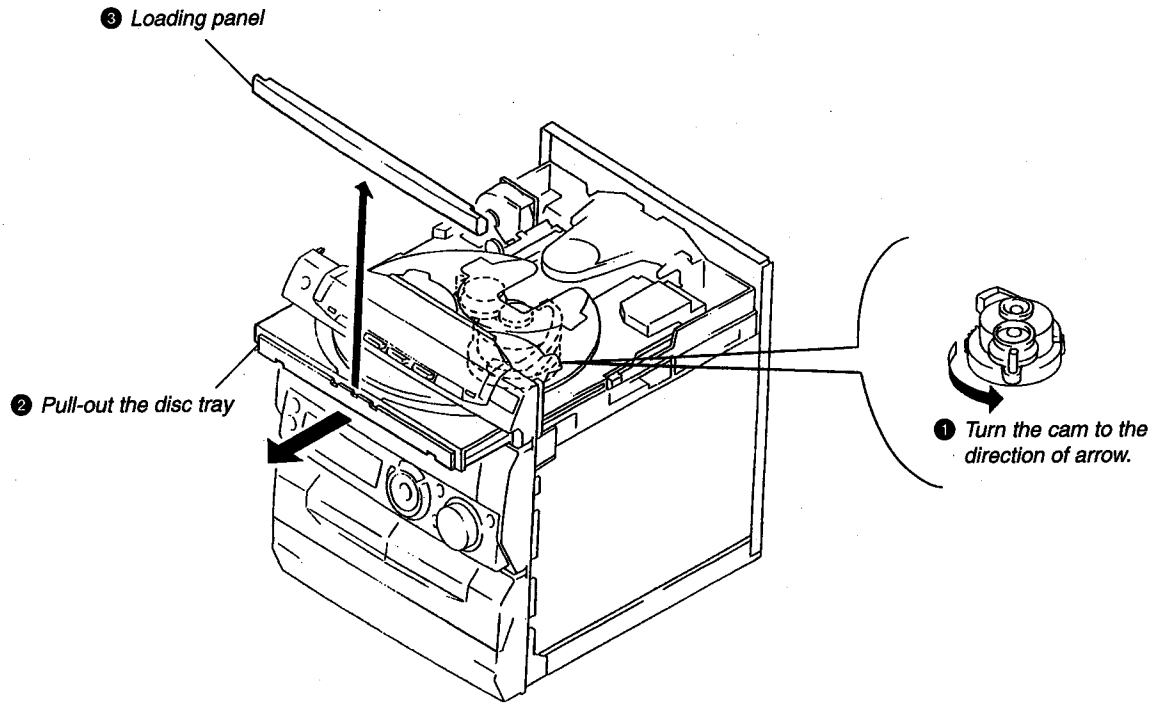
[1] FUNCTION button (8)
[2] SLEEP button (26)
[3] ▷ (CD) button (7)
[4] TUNER/BAND button (12)
[5] DECK A ◁/▷ button (15)
[6] DECK B ◁/▷ button (15)
[7] ⏮/⏭ (CD)/TUNING +/– buttons (7, 13)
[8] ◀◀/▶▶ (CD) buttons (7)
[9] ◀/▶ buttons (20)
[10] PRO LOGIC ON/OFF button (25)
[11] T. TONE ON/OFF button (24)
[12] DSP MODE button (21)
[13] LOOP button (11)
[14] DSP LEVEL buttons (21)
[15] POWER button (7)
[16] EDIT buttons (17)
[17] CHECK (CD) button (9)
[18] CLEAR (CD) button (9)
[19] D. SKIP button (7)
[20] ■ (stop) button (7)
[21] ❚❚ (pause) button (7)
[22] ▲/▼ buttons (20)
[23] MUSIC MENU ON/OFF button (20)
[24] CENTER LEVEL +/– buttons (24)
[25] REAR LEVEL +/– buttons (24)
[26] VOLUME +/– button (20)

*AMS = Automatic Music Sensor.

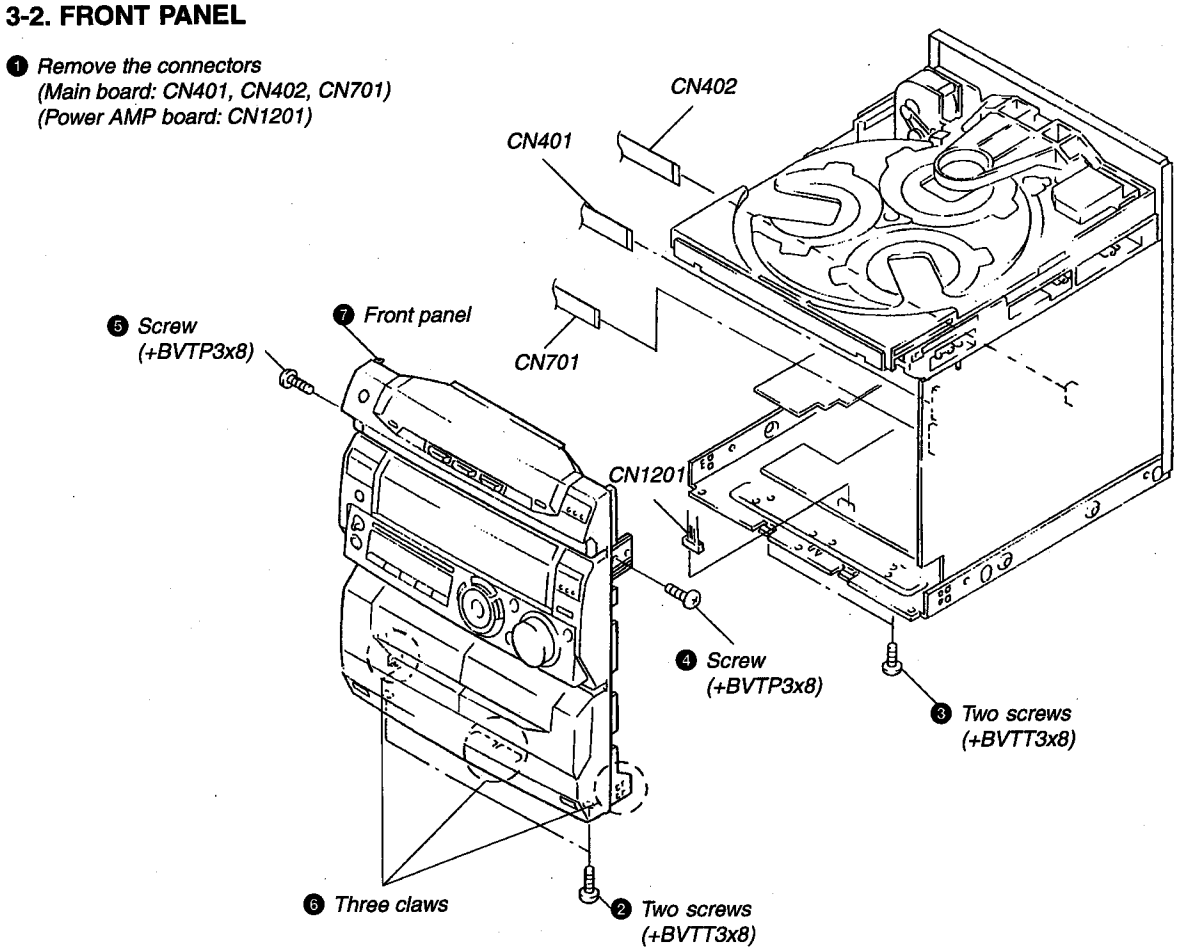
SECTION 3
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

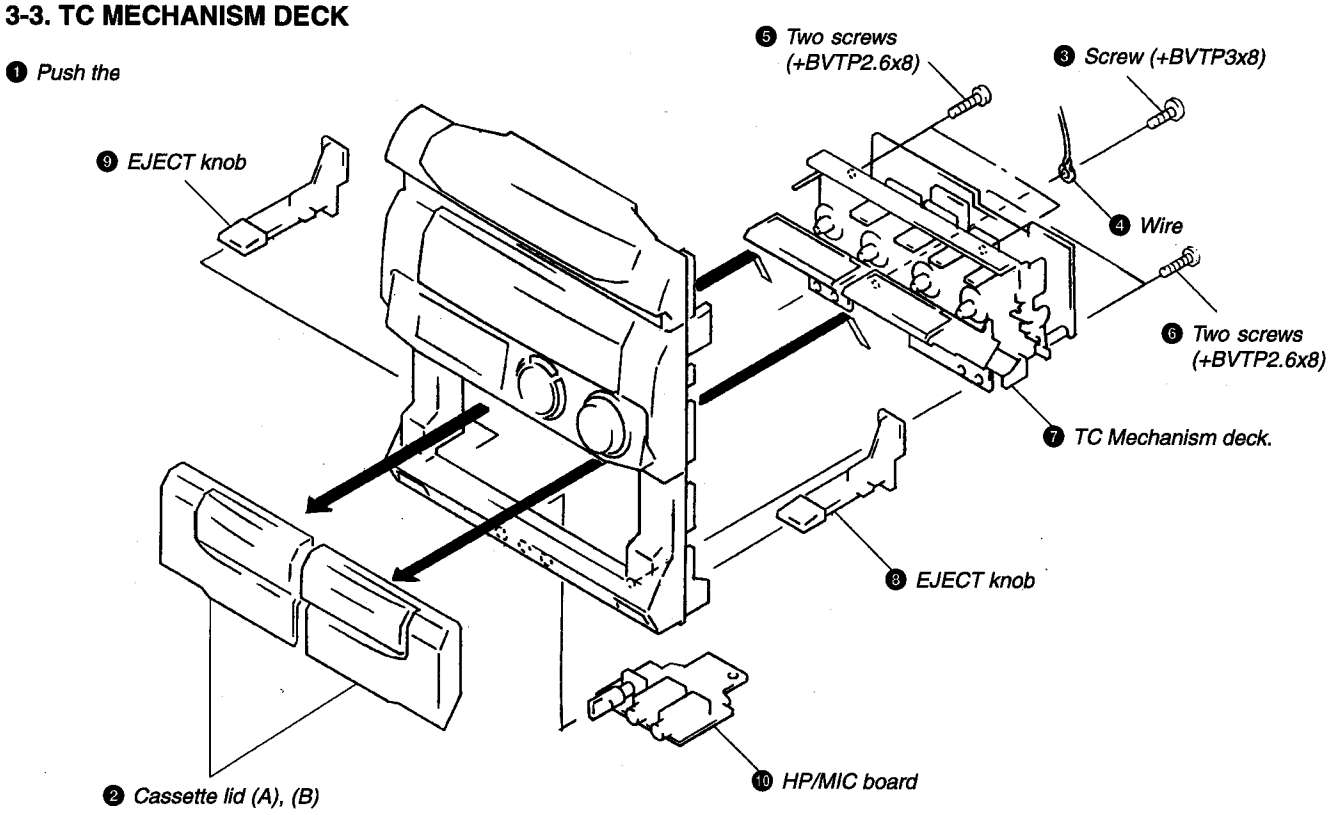
3-1. LOADING PANEL



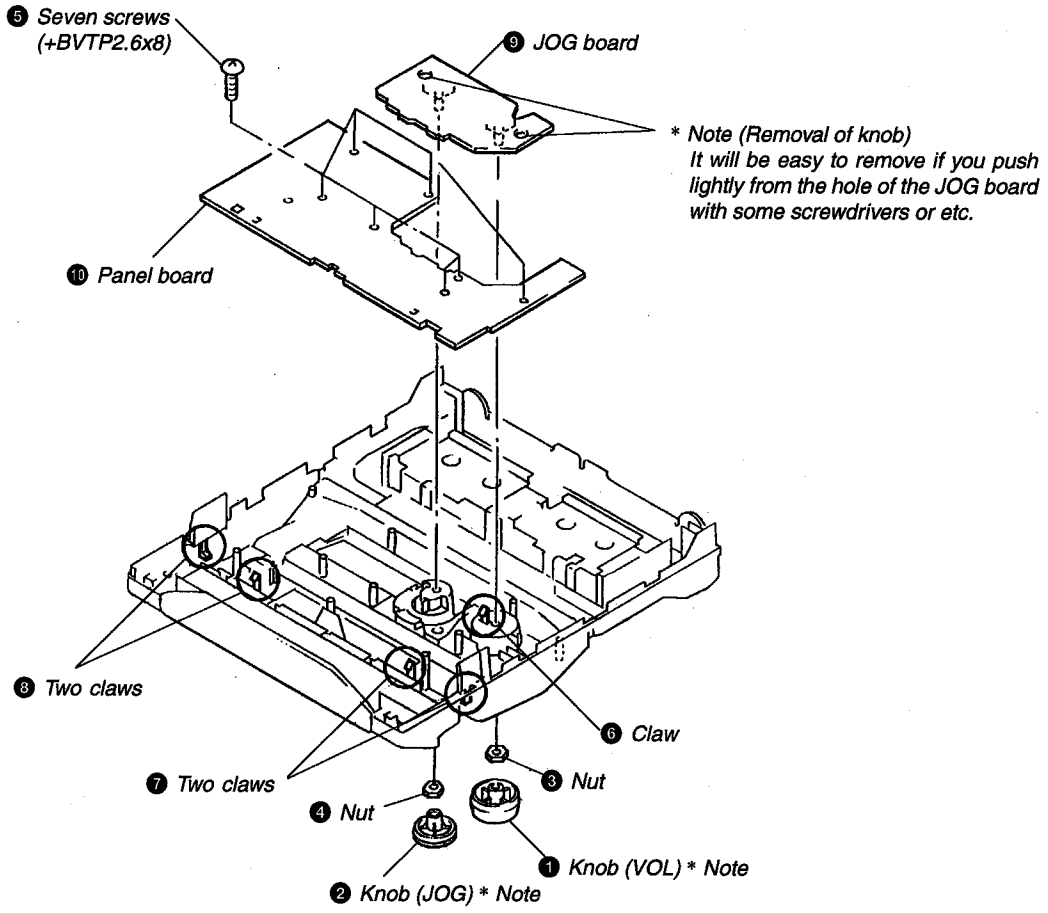
3-2. FRONT PANEL



3-3. TC MECHANISM DECK

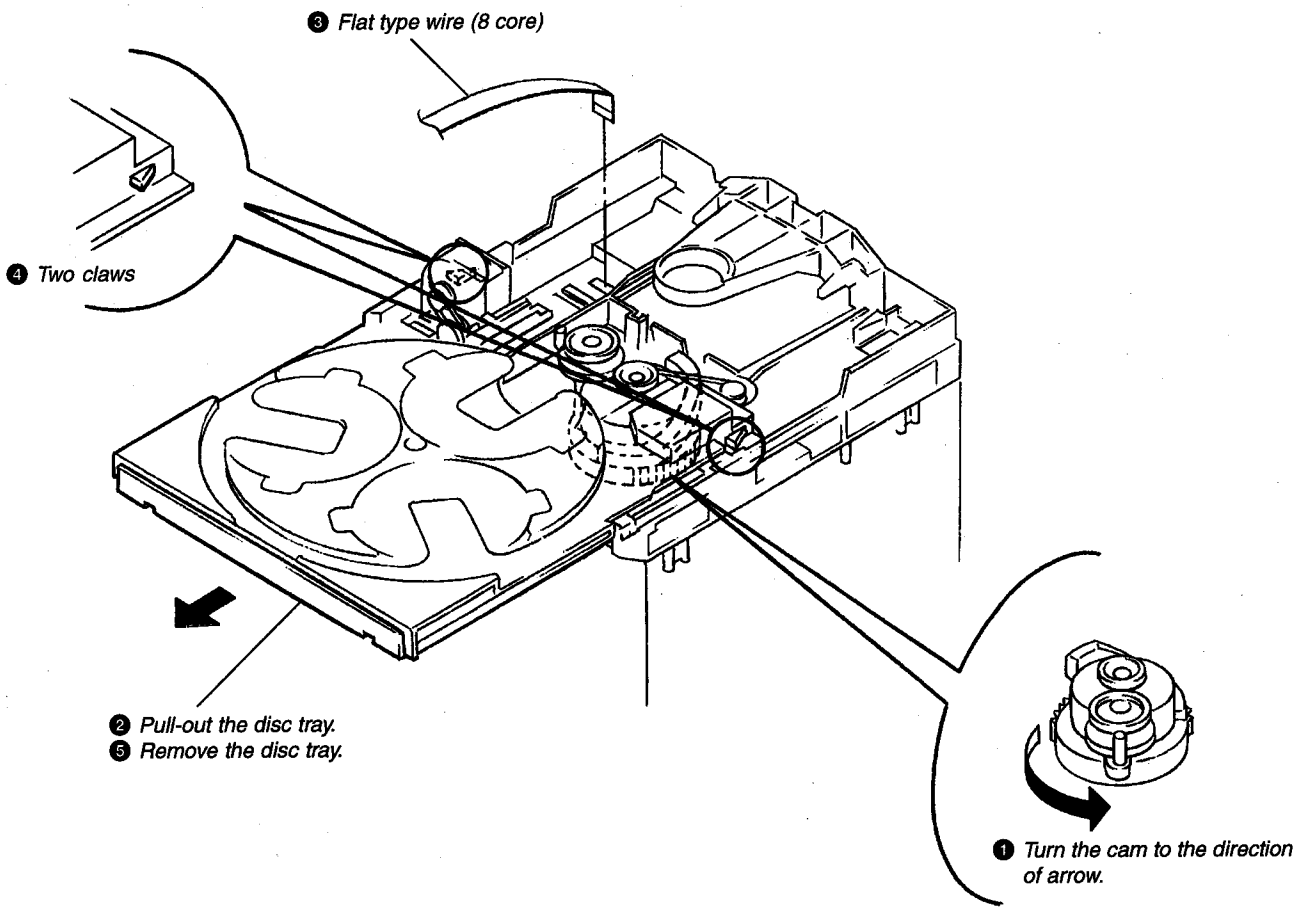


3-4. JOG BOARD, PANEL BOARD

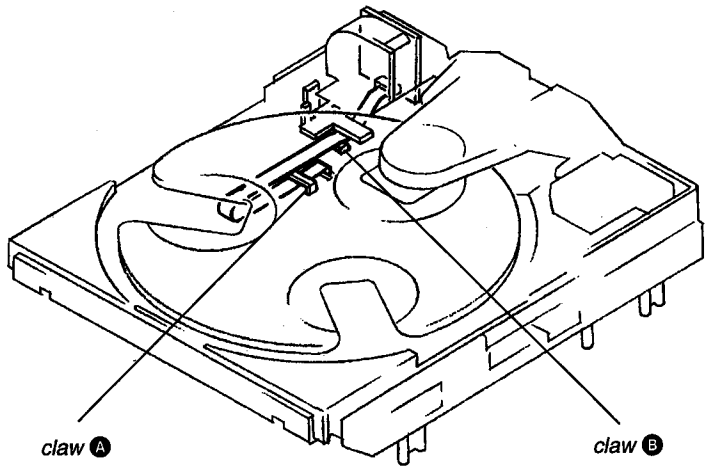

❺ Seven screws (+BVTP2.6x8)
❾ JOG board
* Note (Removal of knob)
It will be easy to remove if you push lightly from the hole of the JOG board with some screwdrivers or etc.
❿ Panel board
❽ Two claws
❻ Claw
❼ Two claws
❸ Nut
❹ Nut
❶ Knob (VOL) * Note
❷ Knob (JOG) * Note

3-5. DISC TRAY

(Perform after removing the front panel.)



Note: *When installing the Disc tray, pull around the flat type wire to pass through the claw Ⓐ and claw Ⓑ, as shown in the figure.*



SECTION 4
MECHANICAL ADJUSTMENTS

Precaution

1. Clean the following parts with a denatured alcohol-moistened swab:
   record/playback heads — pinch rollers
   erase head — rubber belts
   capstan — idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque meter	Meter reading
FWD	CQ-102C	36 to 61 g • cm (0.5 - 0.84 oz • inch)
FWD back tension	CQ-102C	2 to 6 g • cm (0.02 - 0.08 oz • inch)
REV	CQ-102RC	36 to 61 g • cm (0.5 - 0.84 oz • inch)
REV back tension	CQ-102RC	2 to 6 g • cm (0.02 - 0.08 oz • inch)
FF/REW	CQ-201B	61 to 143 g • cm (0.85 - 1.99 oz • inch)
FWD tension	CQ-403A	100 g or more (3.53 oz or more)
REV tension	CQ-403R	100 g or more (3.53 oz or more)

SECTION 5
ELECTRICAL ADJUSTMENTS

DECK SECTION **0 dB=0.775V**

1. Demagnetize the record/playback head with a head damagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjusted.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.
7. Switches and controls should be set as follows unless otherwise specified.
   DOLBY NR switch: OFF

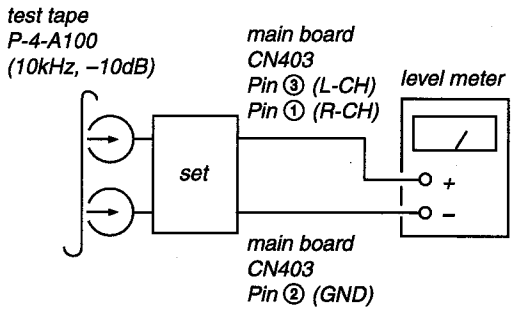
Tape	Signal	Used for
P-4-A100	10 kHz, –10 dB	Azimuth Adjustment
WS-48B	3 kHz, 0 dB	Tape Speed Adjustment
P-4-L300	315 Hz, 0 dB	Level Adjustment

Record/Playback Head Azimuth Adjustment (Deck A, Deck B)

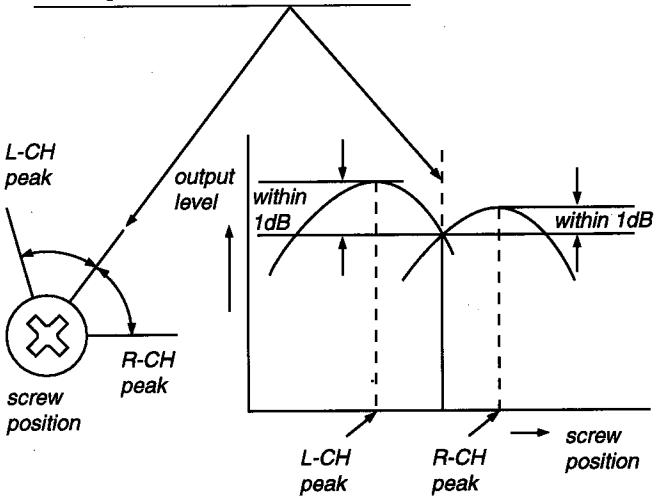
Note: Perform this adjustments for both decks.

Procedure:

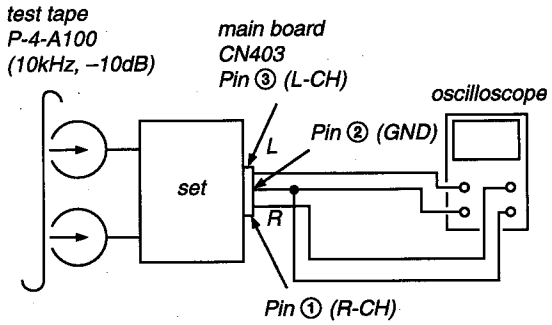
1. Mode : Playback

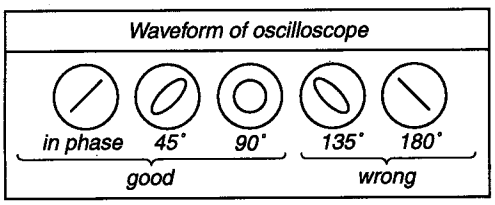


2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1 dB of peak.



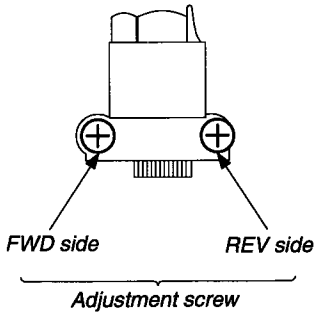
3. Mode: Playback





4. After the adjustments, apply suitable locking compound to the parts adjusted.

Adjustment Location: Playback Head (Deck A)
Record/Playback/Erase Head (Deck B)

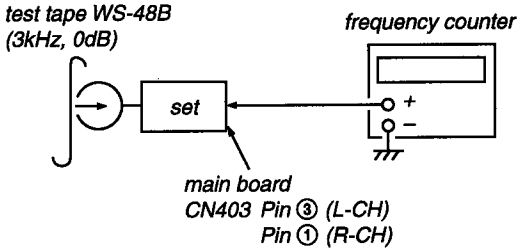


Tape Speed Adjustment (Deck A)

Note: Start the Tape Speed adjustment as below after setting the test mode.
The tape speed can be changed with the HIGH SPEED DUBBING button during the test mode.

Method :
1. Turn the power switch on.
2. Press the DISPLAY/DEMO button, MENU 1 button and TUNER/BAND button simultaneously.

Procedure :
Mode: Playback



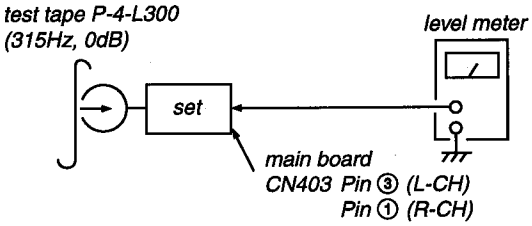
1. Insert the WS-48B into the deck A to playback.
2. Press the HIGH SPEED DUBBING button. Then at HIGH SPEED mode.
3. Adjust the RV652 on the MD board so that the frequency counter reading becomes 6,000 ± 30 Hz.
4. Press the HIGH SPEED DUBBING button again to be set the NORMAL SPEED mode.
5. Set to the playback mode.
6. Adjust the RV651 on the MD board so that the frequency counter reading becomes 3,000 ± 15 Hz.

Frequency difference between deck A and deck B the beginning of the tape should be within ± 1.5%.

Adjustment Location: MD board

Playback Level Adjustment (Deck A, Deck B)

Procedure:
Mode: Playback



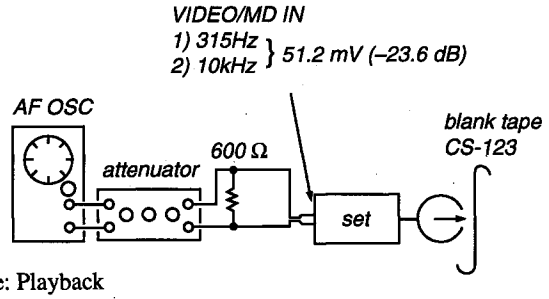
Deck A is RV311 (L-CH) and RV411 (R-CH), deck B is RV301 (L-CH) and RV401 (R-CH)
so that adjustment within the following adjustment level.

Adjustment level:
CN403 playback level: 301.5 to 338.3 mV (–8.2 to –7.2 dB)
level difference between the channels: within ± 0.5 dB
Adjustment Location: MD board

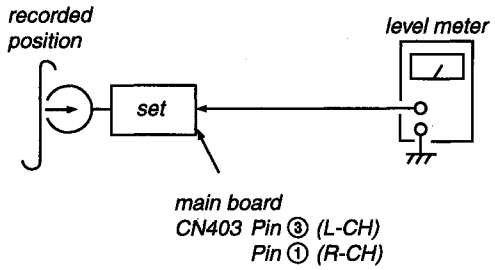
Record Bias Adjustment (Deck B)

Procedure:

1. Press [FUNCTION] button to select VIDEO.
2. Mode: record



3. Mode: Playback



4. Confirm playback the signal recorded in step 2 become adjustment level as follows.
   If these levels do not adjustment level, adjust the RV341 (L-CH) and RV441 (R-CH) on the MD board to repeat steps 2 and 3.

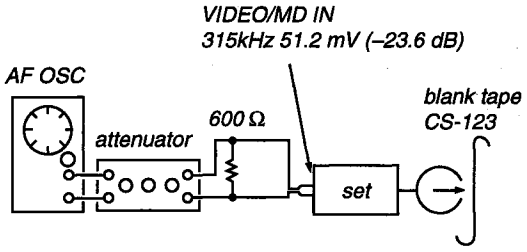
Adjustment level: The playback output of 10 kHz level difference against 315 Hz reference should be ± 0.5 dB.

Adjustment Location: MD board

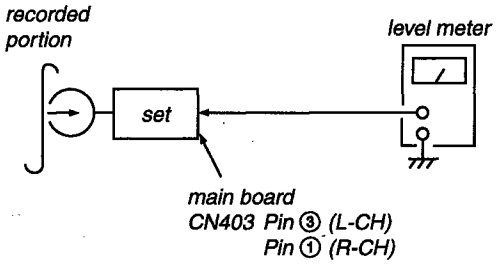
Record Level Adjustment (Deck B)

Procedure:

1. Press [FUNCTION] button to select VIDEO.
2. Mode: record



3. Mode: Playback



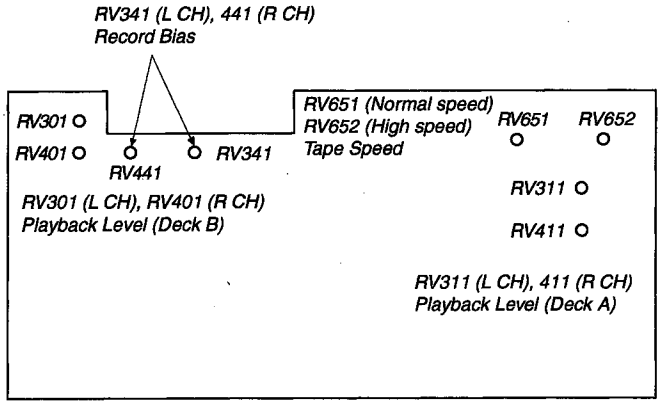
4. Confirm playback the signal recorded in step 2 become adjustment level as follows.
   If these levels do not adjustment level, adjust the RV301 (L-CH) and RV351 (R-CH) on the main board to repeat steps 2 and 3.

Adjustment level:
CN403 PB level: 47.2 to 53.0 mV (–24.3 to –23.3 dB)

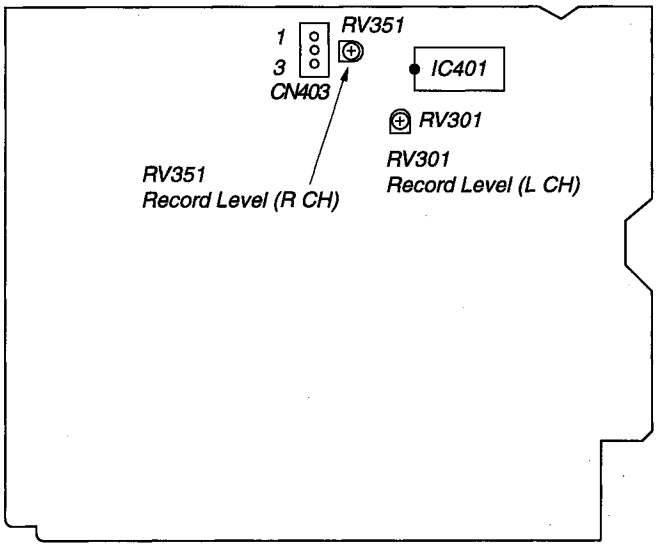
Adjustment Location: MAIN board

Adjustment Location

[MD BOARD] (Conductor Side)



[MAIN BOARD] (Component Side)



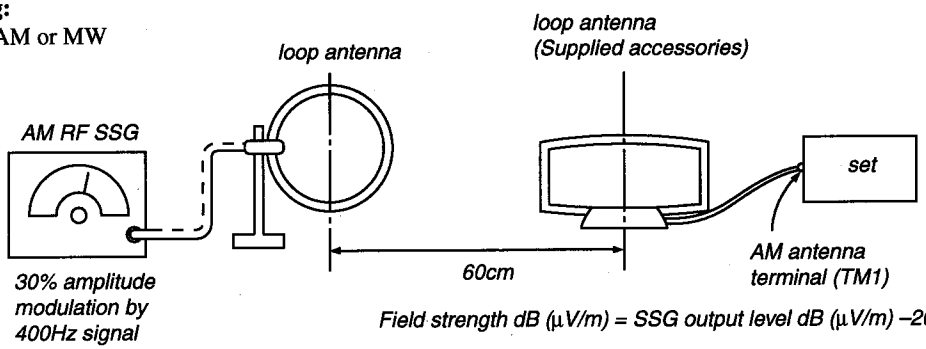
TUNER SECTION | 0dB=1μV

Note: As a front-end (FE1) is difficult to repair if faulty, replace it with new one.

AM Tuned Level Adjustment

Note: FM Tuned Level adjustment should be performed after this AM Tuned Level Adjustment.

Setting:
Band: AM or MW



Field strength dB (μV/m) = SSG output level dB (μV/m) –26dB.

Modulation: 999 kHz (at 9 kHz step)
1,050 kHz (at 10 kHz step)

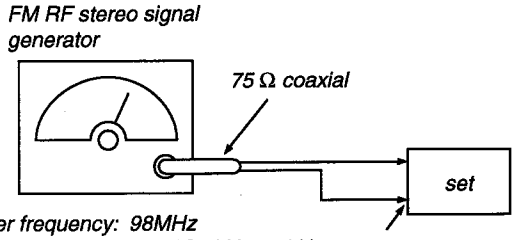
Procedure:
1. Set the output of SSG so that the input level of the set becomes 55 dB.
2. Tune the set to 999 kHz or 1,050 kHz.
3. Adjust RV41 (except US, CND, E2, AR, AUS, TH model), RV42 (US, CND, E2, AR, AUS, TH model) to the point (moment) when the TUNED indicator will change from going off to going on.

Adjustment Location: TCB board

FM Tuned Level Adjustment

Note: This adjustment should be performed after the AM Tuned Level Adjustment.

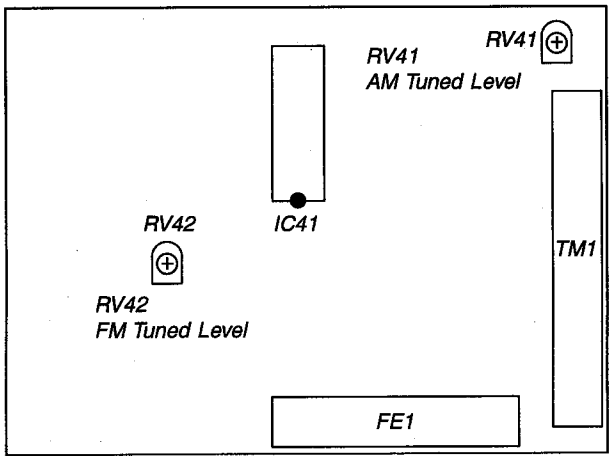
Setting:
Band: FM



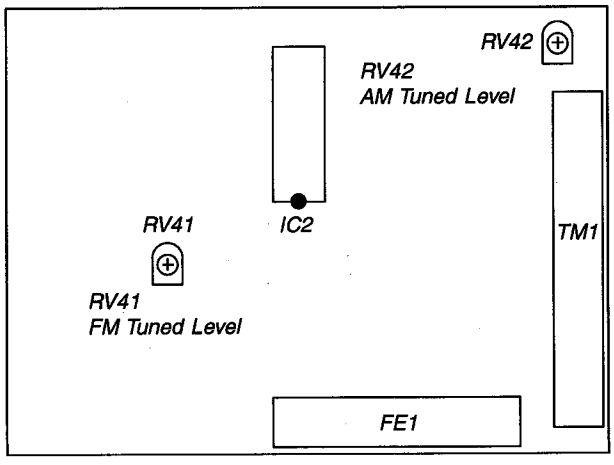
Procedure:
1. Supply a 25 dB 98 MHz signal from the ANTENNA terminal.
2. Tune the set to 98 MHz.
3. Adjust RV42 (except US, CND, E2, AR, AUS, TH model), RV41 (US, CND, E2, AR, AUS, TH model) to the point (moment) when the TUNED indicator will change from going off to going on.

- Abbreviation
  CND: Canadian model.
  AR: Argentine model.
  AUS: Australian model.
  TH: Thailand model.
  E2: Without SW tuner model.

Adjustment Location
except US, CND, E2, AR, AUS, TH model
[TCB BOARD] (Component Side)



US, CND, E2, AR, AUS, TH model
[TCB BOARD] (Component Side)



SW OSC Voltage Adjustment (E3, EA, MY, SP, HK, IA, PX model)

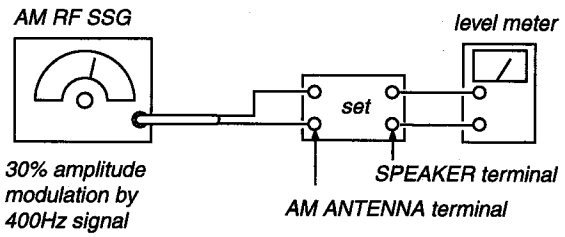
Setting:
Band: SW

Procedure:
1. Connect digital Voltmeter to diode D1 center lead and ground.
2. Adjust for a following value reading on digital voltmeter.

	Set frequency	Adjustment part	Reading on digital voltmeter
SW	5.95 MHz	T2	1.2 ± 0.1 V
	17.9 MHz	CV2	8.5 ± 0.2 V

SW Tracking Adjustment (E3, EA, MY, SP, HK, IA, PX model)

Setting:
Band: SW



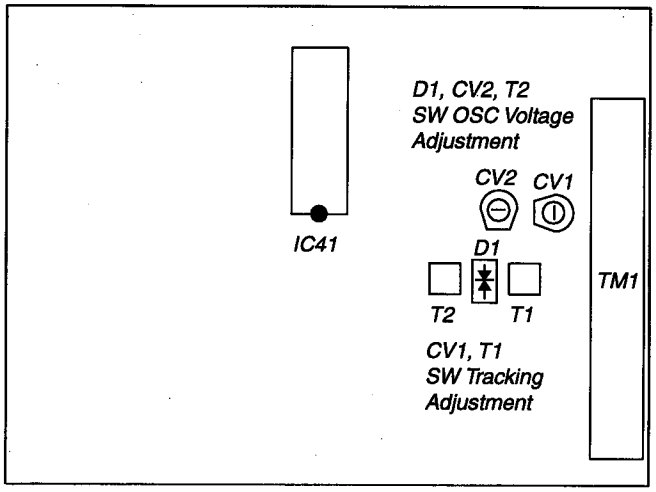
Procedure:
Adjust for maximum reading on level meter.

	Set frequency	Adjustment part
SW	7 MHz	T1
	17 MHz	CV1

- Repeat the procedures is each adjustment several times, and the frequency coverage and tracking adjustment should be finally done by the trimmer capacitors.

Adjustment Location

[TCB BOARD] — Component Side —



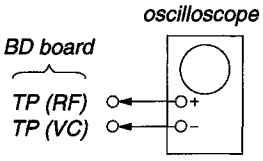
- Abbreviation
  EA: Saudi Arabia model.
  MY: Malaysia model.
  SP: Singapore model.
  HK: Hong Kong model.
  IA: Indonesian model.
  E3: With SW tuner model.

CD SECTION

Note:

1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.
5. Adjust the focus bias adjustment when optical block is replaced.

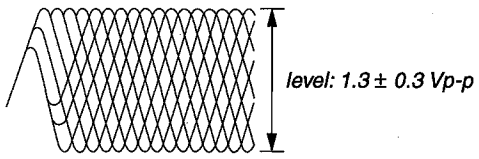
Focus Bias Adjustment



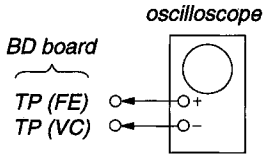
Procedure:

1. Connect oscilloscope to test point TP (RF). (Ground terminal : TP (VC))
2. Turned Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Adjust RV101 so that the waveform is clear.
   (Clear RF signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.)
5. After adjustment, check the RF signal level.

• RF signal
VOLT/DIV: 200 mV
TIME/DIV: 500 nS



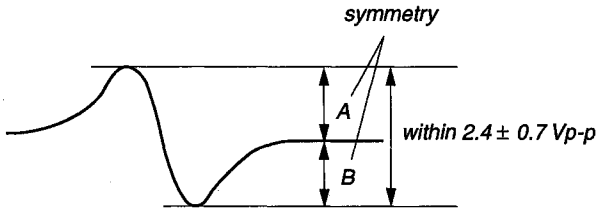
S Curve Check



Procedure :

1. Connect oscilloscope to test point TP (FEO).
2. Connect between test point TP (FOK) and Ground by lead wire.
3. Turn Power switch on.
4. Put disc (YEDS-18) in and turned Power switch on again and actuate the focus search. (actuate the focus search when disc table is moving in and out.)
5. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 2.4 ± 0.7 Vp-p.

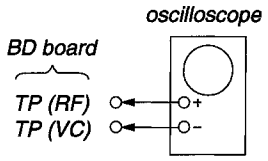
S-curve waveform



6. After check, remove the lead wire connected in step 2.

Note: • Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
• Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check

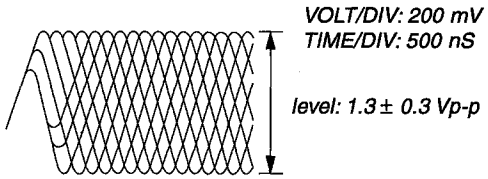


Procedure :

1. Connect oscilloscope to test point TP (RF) on BD board.
2. Turned Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

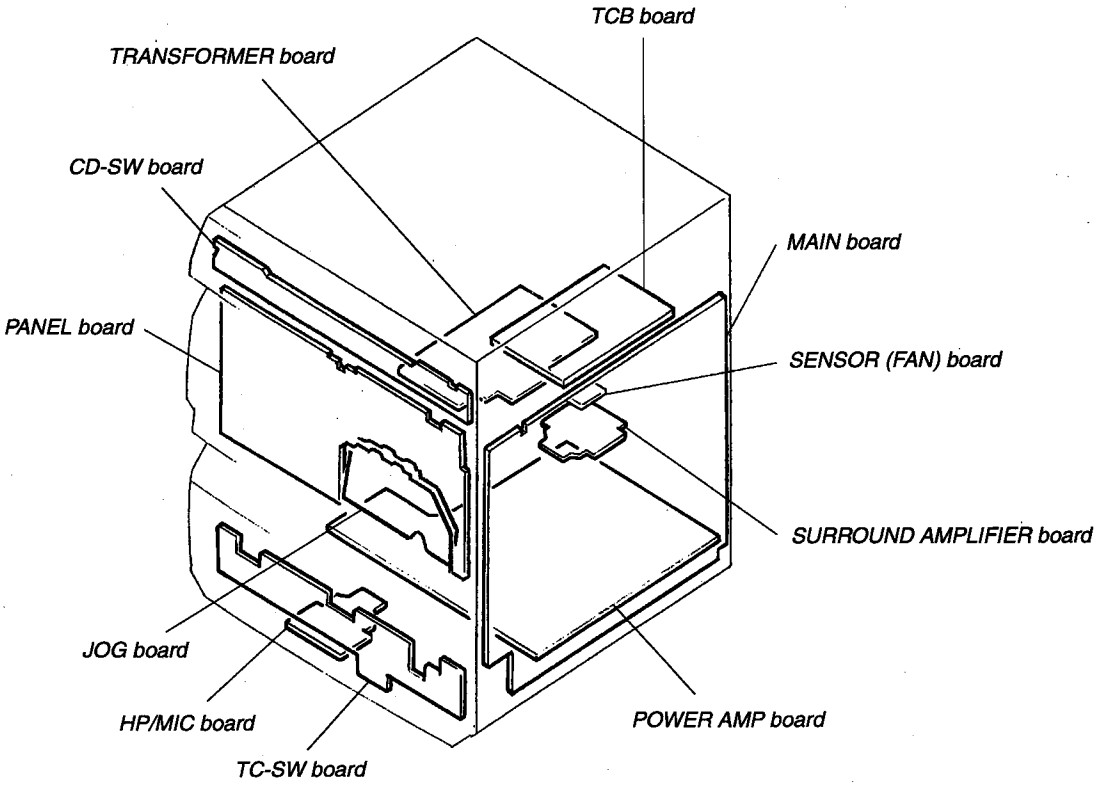
Note: Clear RF signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.

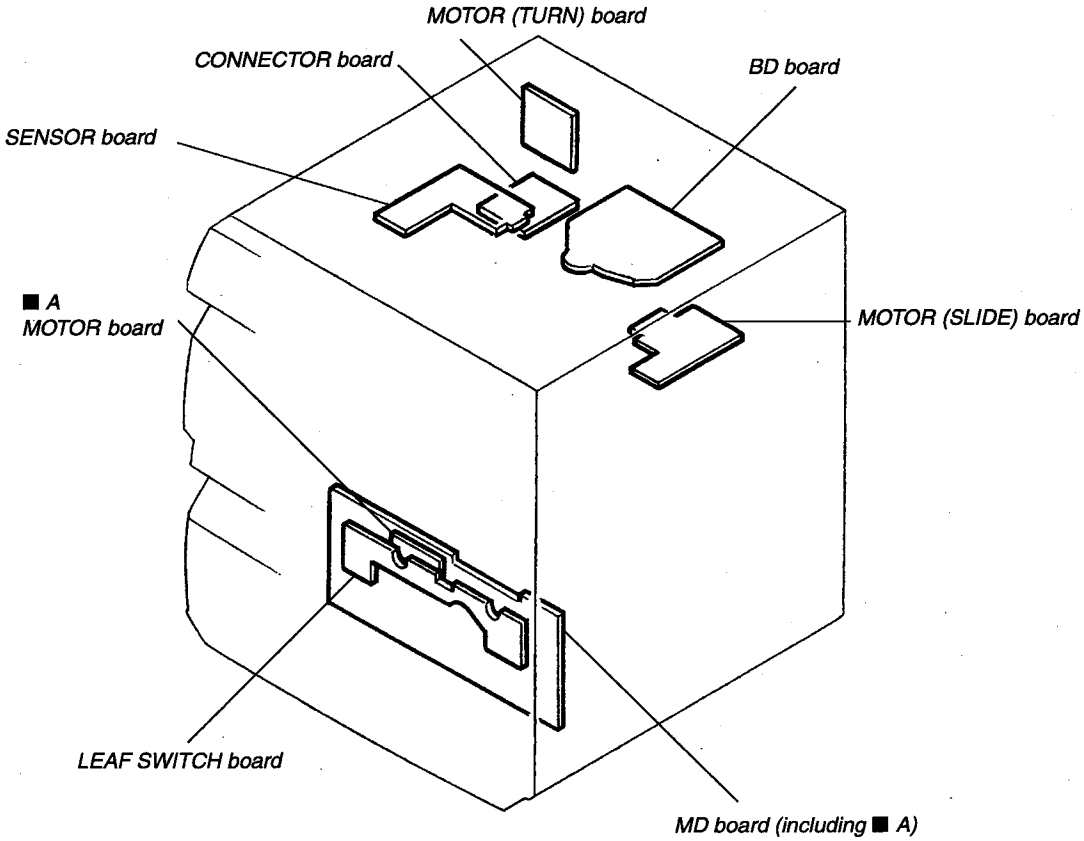
RF signal waveform



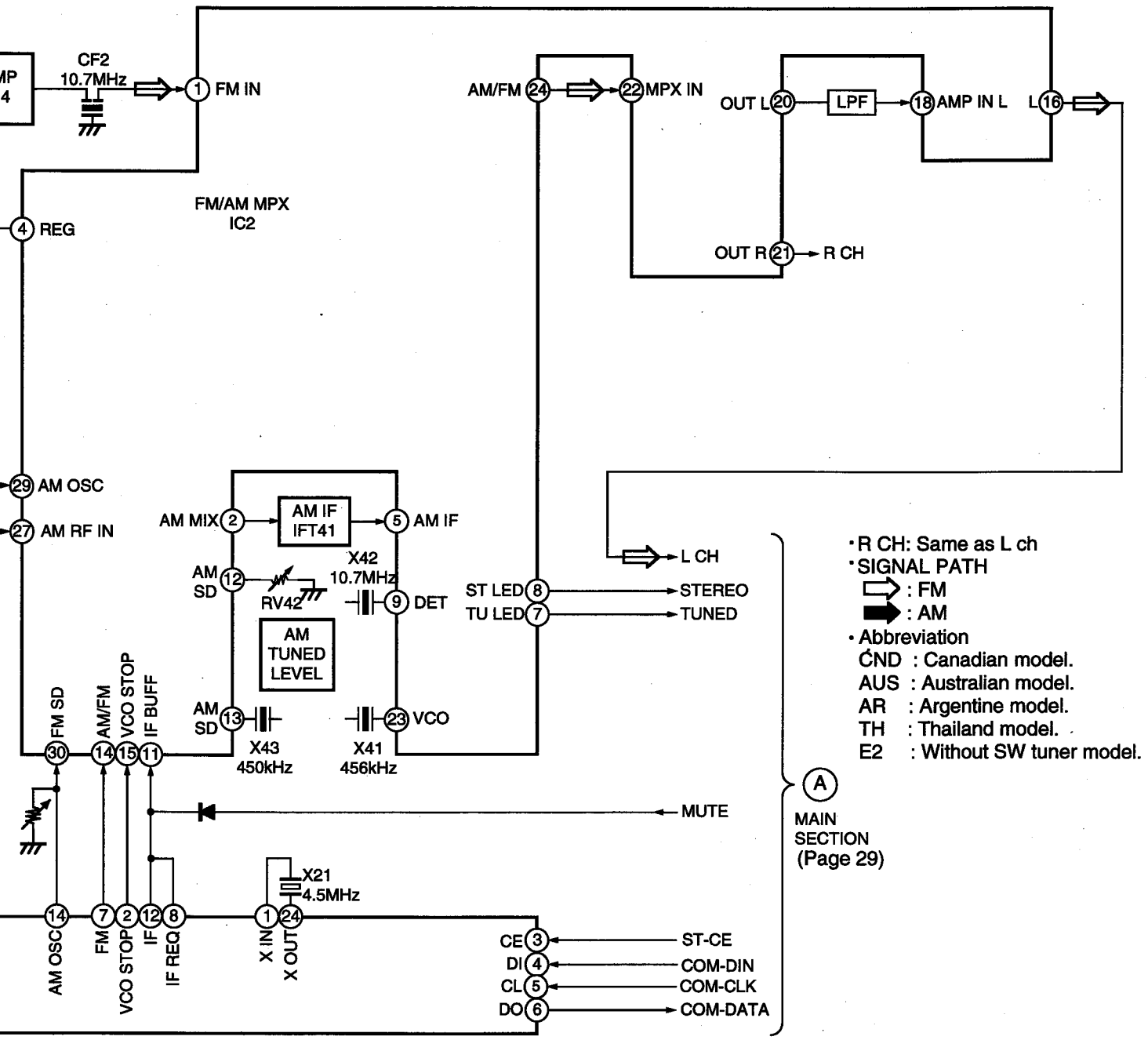
SECTION 6
DIAGRAMS

6-1. CIRCUIT BOARDS LOCATION

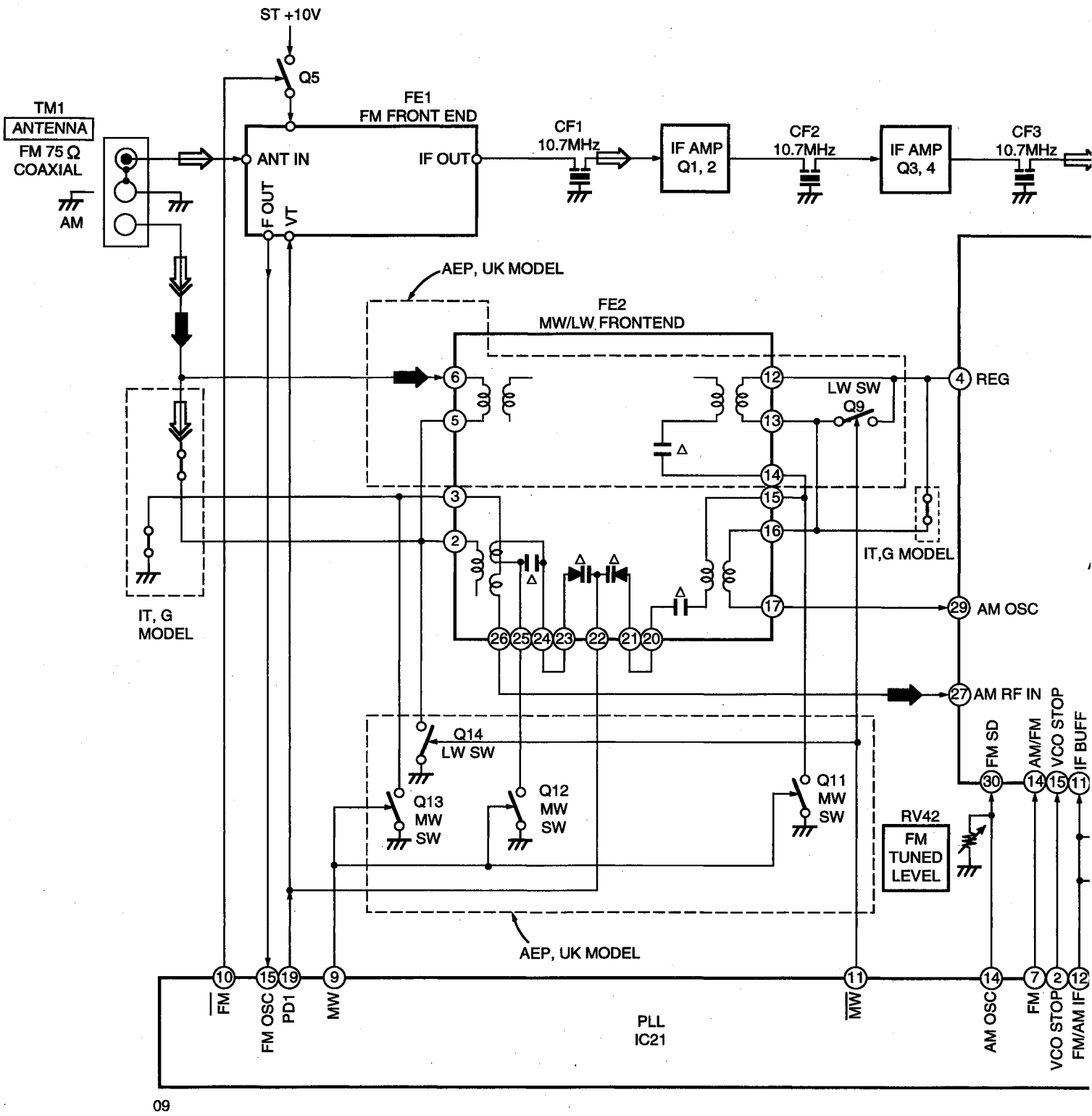


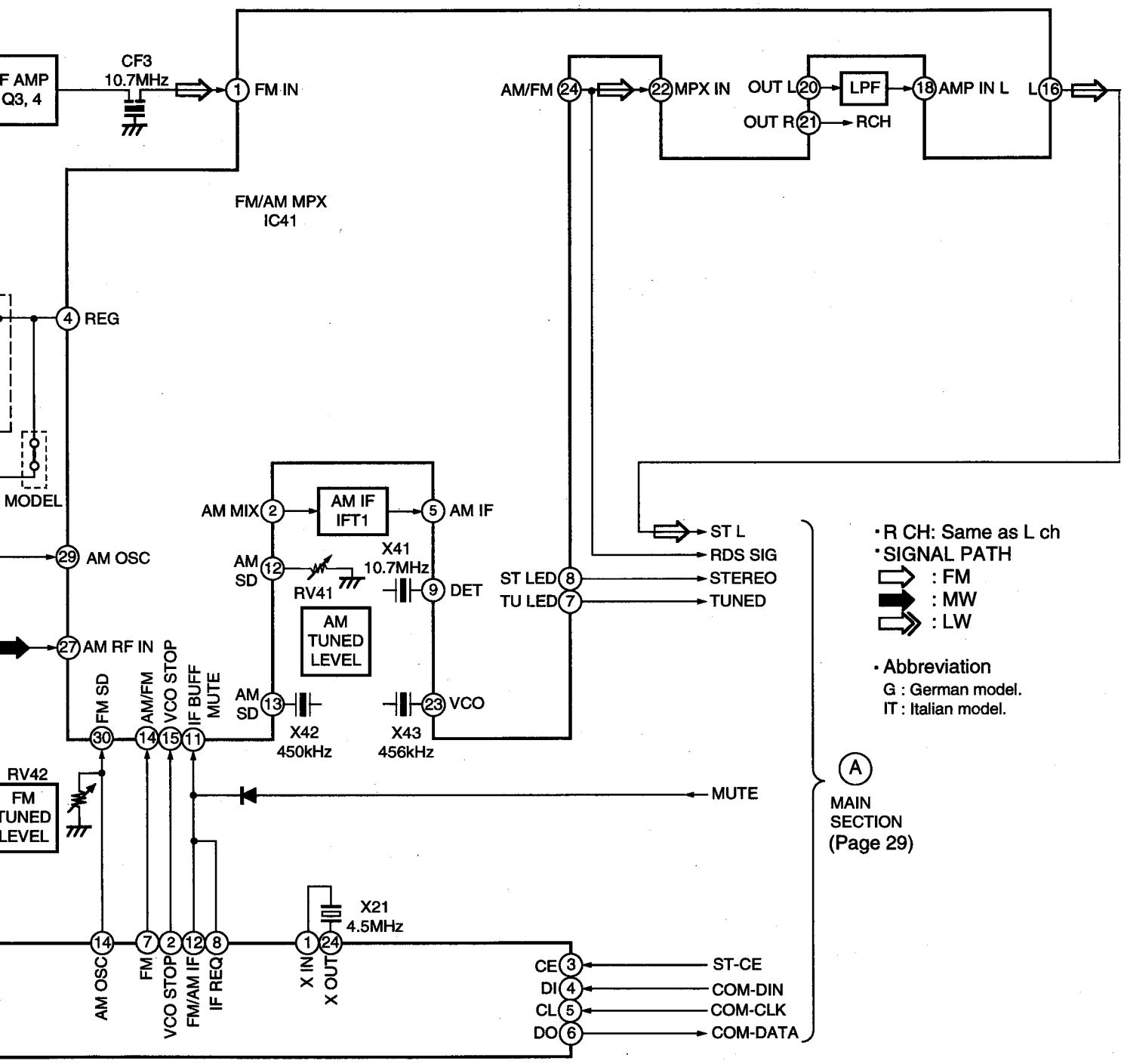


Note: *■ A is including in MD board.*

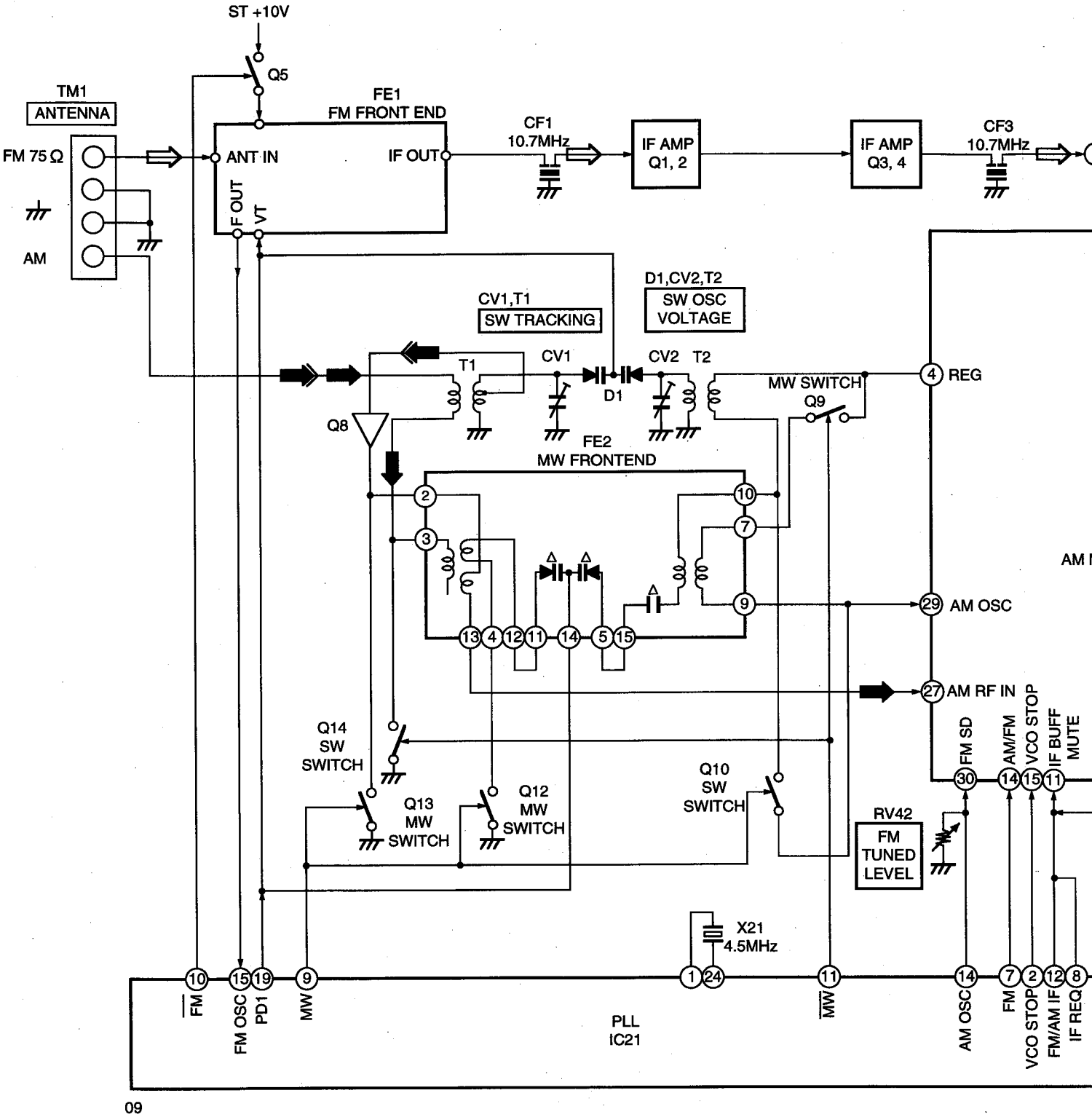

CF2
10.7MHz
1 FM IN
AM/FM 24
22 MPX IN
OUT L 20
LPF
18 AMP IN L
L 16
FM/AM MPX
IC2
4 REG
OUT R 21
R CH
29 AM OSC
27 AM RF IN
AM MIX 2
AM IF
IFT41
5 AM IF
AM
SD 12
X42
10.7MHz
RV42
9 DET
L CH
ST LED 8
STEREO
TU LED 7
TUNED
AM
TUNED
LEVEL
AM
SD 13
X43
450kHz
23 VCO
X41
456kHz
FM SD
AM/FM
VCO STOP
IF BUFF
30
14
15
11
MUTE
X21
4.5MHz
14
7
2
12
8
1
24
AM OSC
FM
VCO STOP
IF
IF REQ
X IN
X OUT
CE 3
DI 4
CL 5
DO 6
ST-CE
COM-DIN
COM-CLK
COM-DATA
A
MAIN
SECTION
(Page 29)
• R CH: Same as L ch
• SIGNAL PATH
: FM
: AM
• Abbreviation
CND : Canadian model.
AUS : Australian model.
AR : Argentine model.
TH : Thailand model.
E2 : Without SW tuner model.

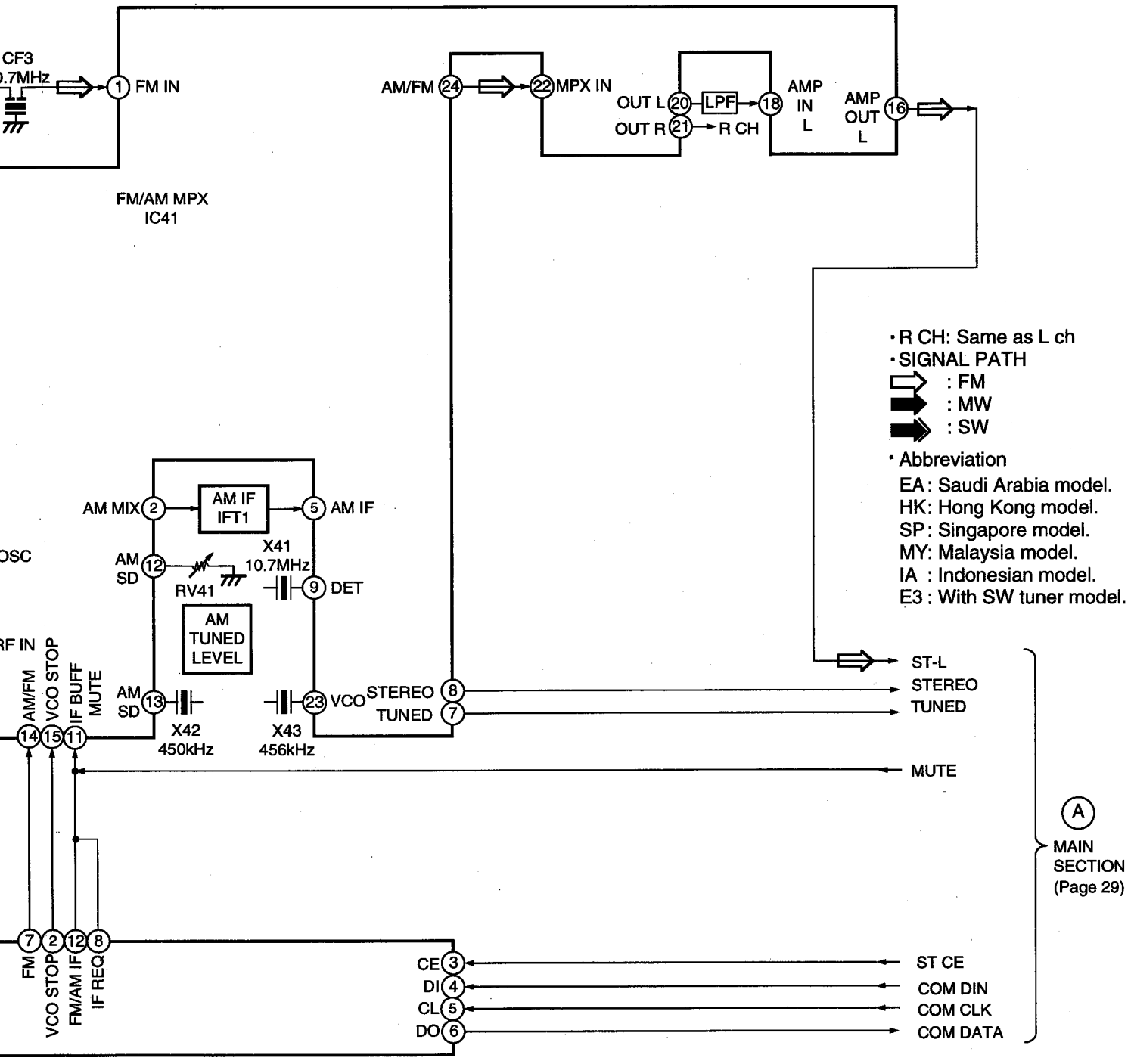
— TUNER SECTION — (AEP, UK, G, IT MODEL)

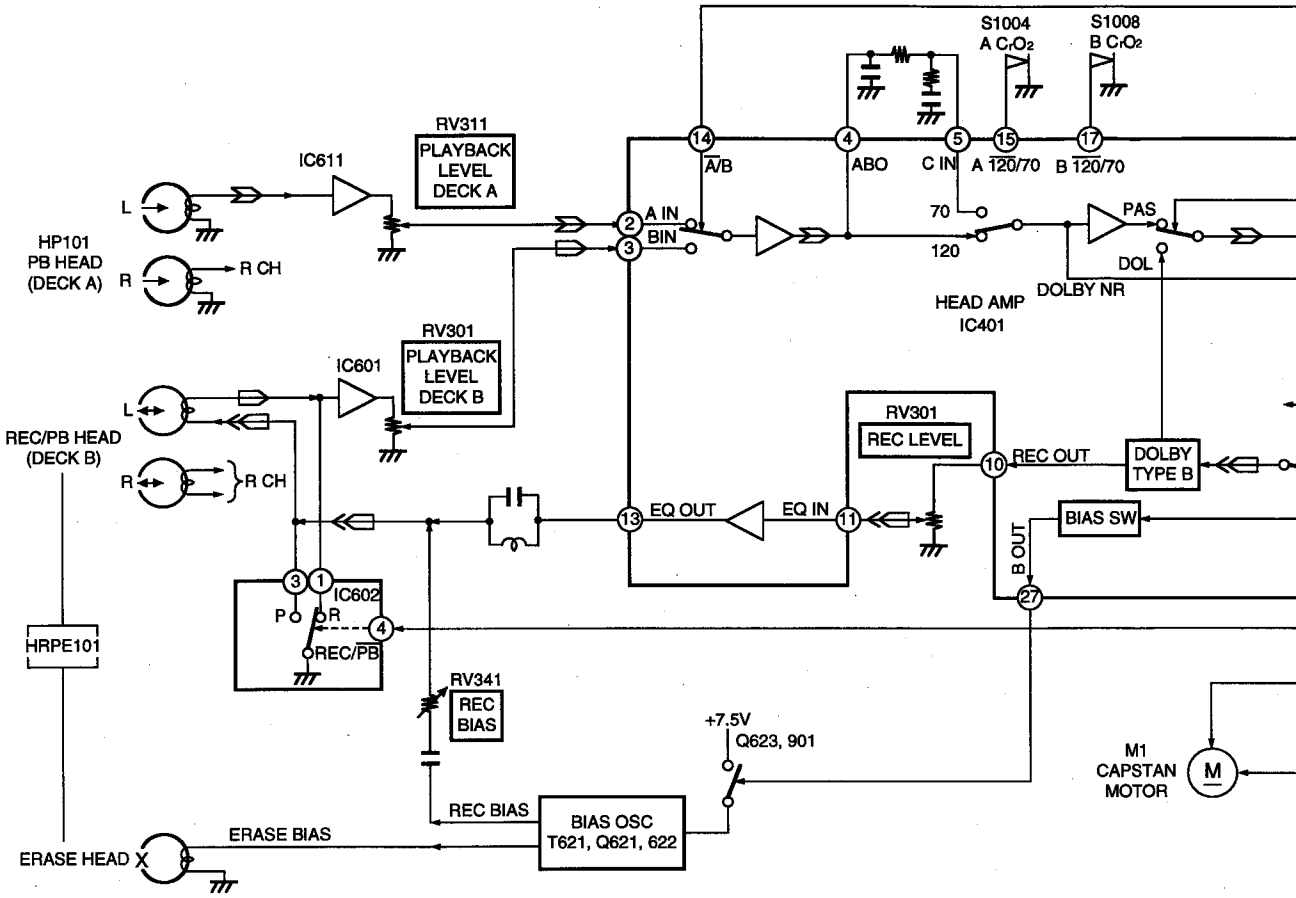



F AMP
Q3, 4
CF3
10.7MHz
1 FM IN
AM/FM 24
22 MPX IN
OUT L 20
LPF
18 AMP IN L
L 16
OUT R 21
RCH
FM/AM MPX
IC41
4 REG
MODEL
AM MIX 2
AM IF
IFT1
5 AM IF
29 AM OSC
AM
SD 12
X41
10.7MHz
RV41
9 DET
AM
TUNED
LEVEL
27 AM RF IN
AM
SD 13
X42
450kHz
X43
456kHz
23 VCO
FM SD
AM/FM
VCO STOP
IF BUFF
MUTE
30
14
15
11
ST L
RDS SIG
ST LED 8
STEREO
TU LED 7
TUNED
RV42
FM
TUNED
LEVEL
MUTE
X21
4.5MHz
14
7
2
12
8
1
24
AM OSC
FM
VCO STOP
FM/AM IF
IF REQ
X IN
X OUT
CE 3
DI 4
CL 5
DO 6
ST-CE
COM-DIN
COM-CLK
COM-DATA
A
MAIN
SECTION
(Page 29)
• R CH: Same as L ch
• SIGNAL PATH
: FM
: MW
: LW
• Abbreviation
G : German model.
IT : Italian model.

— TUNER SECTION — (E3, EA, HK, SP, MY, IA, PX MODEL)



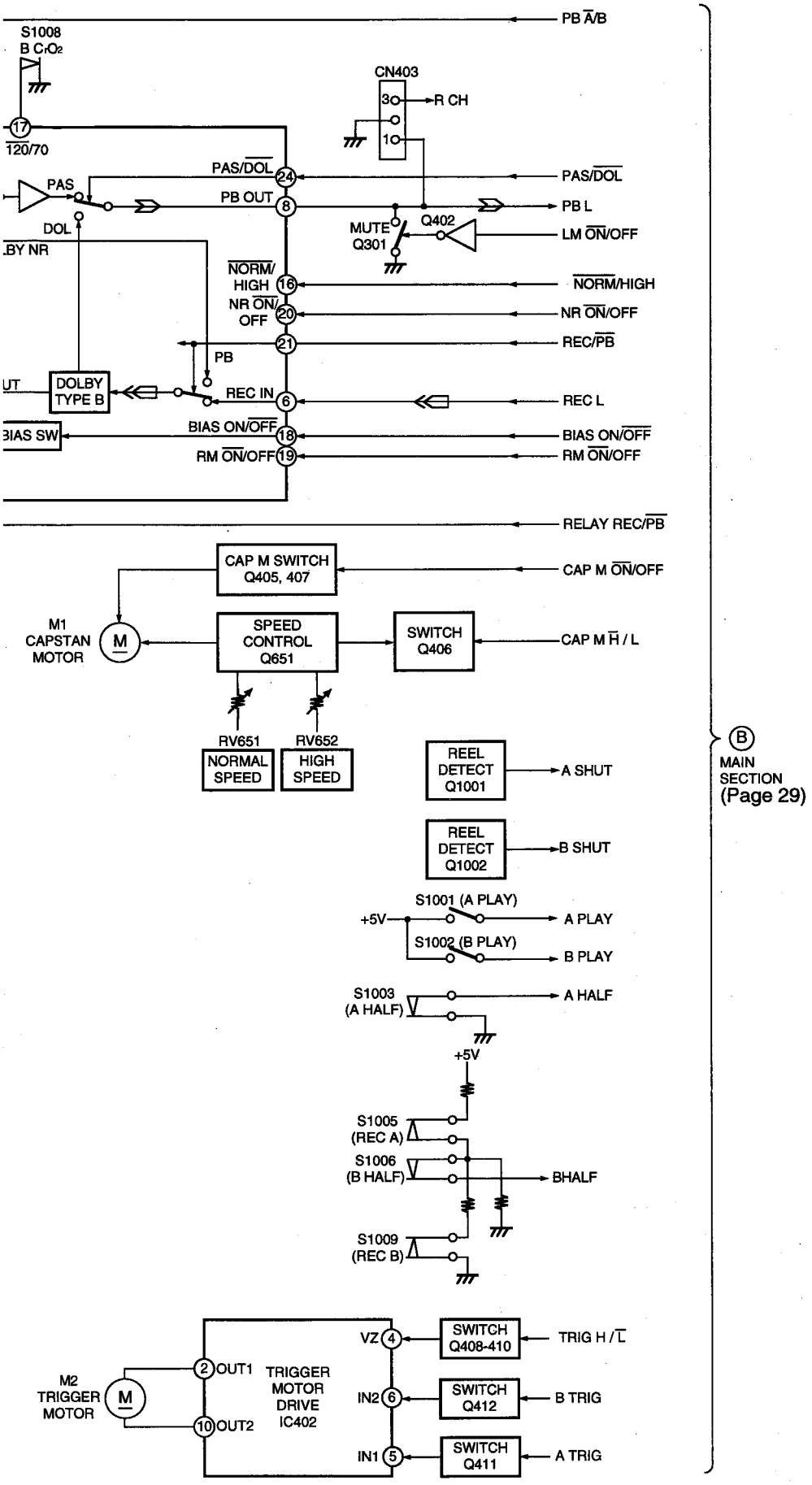

CF3
0.7MHz
1 FM IN
FM/AM MPX
IC41
AM/FM 24
22 MPX IN
OUT L 20
OUT R 21
LPF
18 R CH
AMP IN L
AMP OUT L 16
• R CH: Same as L ch
• SIGNAL PATH
: FM
: MW
: SW
• Abbreviation
EA: Saudi Arabia model.
HK: Hong Kong model.
SP: Singapore model.
MY: Malaysia model.
IA : Indonesian model.
E3 : With SW tuner model.
AM MIX 2
AM IF IFT1
5 AM IF
OSC
AM SD 12
X41 10.7MHz
RV41
9 DET
AM TUNED LEVEL
RF IN
AM/FM
VCO STOP
IF BUFF
MUTE
AM SD 13
X42 450kHz
23 VCO
X43 456kHz
STEREO 8
TUNED 7
ST-L
STEREO
TUNED
MUTE
14 15 11
A
MAIN SECTION (Page 29)
7 2 12 8
FM
VCO STOP
FM/AM IF
IF REQ
CE 3
DI 4
CL 5
DO 6
ST CE
COM DIN
COM CLK
COM DATA



- R CH : Same as L ch
- SIGNAL PATH
  - :PB (DECK A)
  - :PB (DECK B)
  - :REC (DECK B)

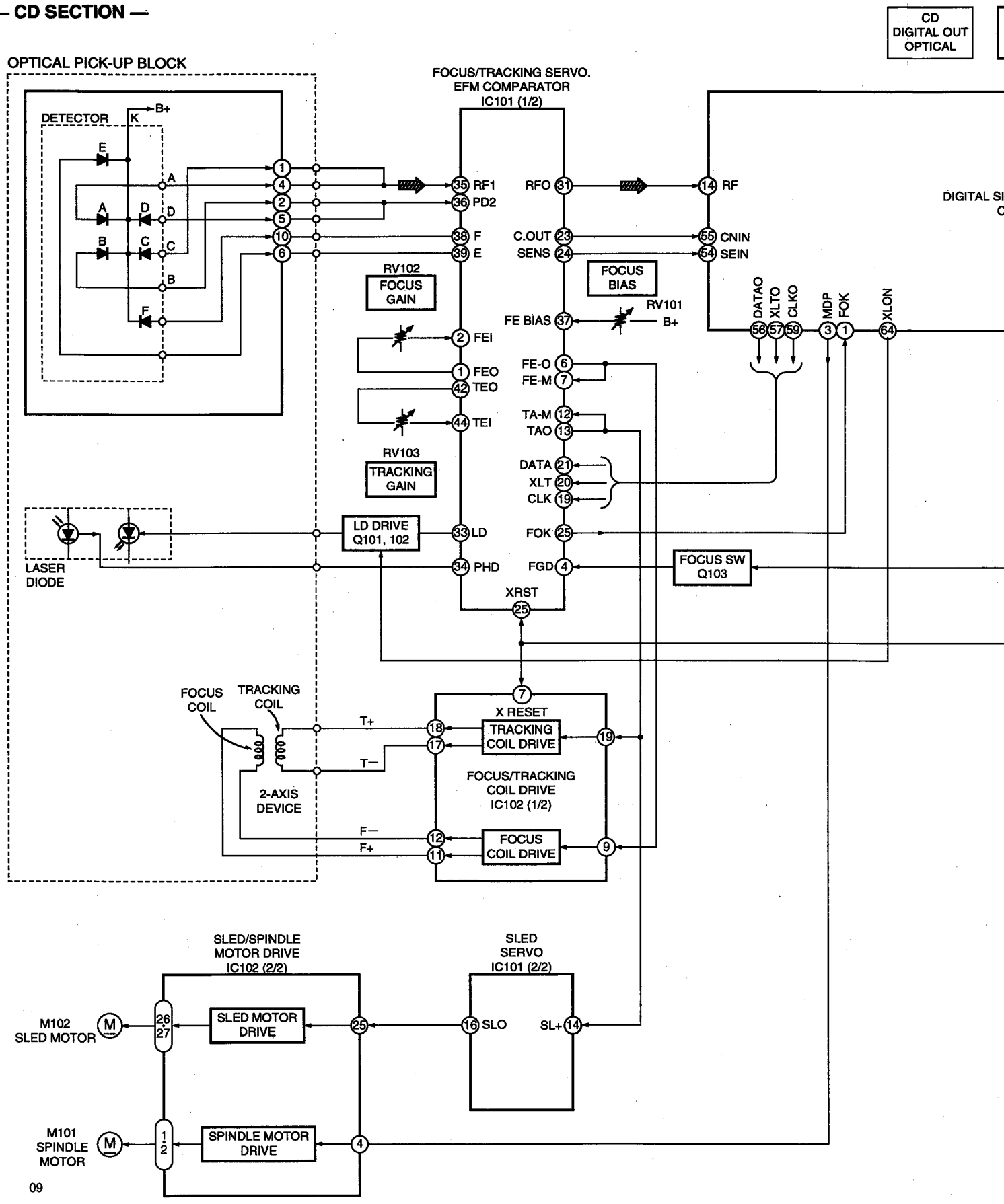
09

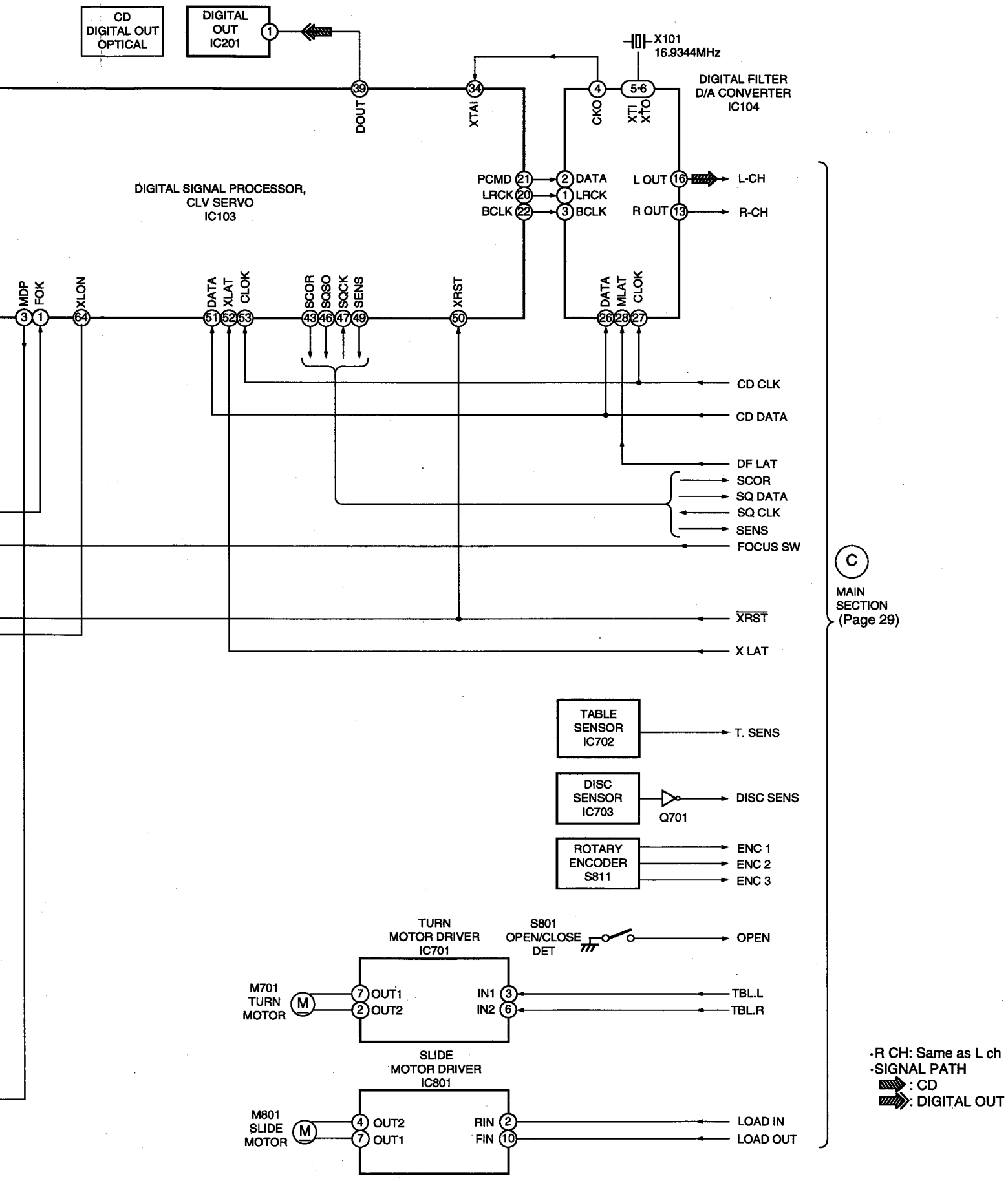
M2
TRIGGER
MOTOR
M



Ⓑ
MAIN
SECTION
(Page 29)

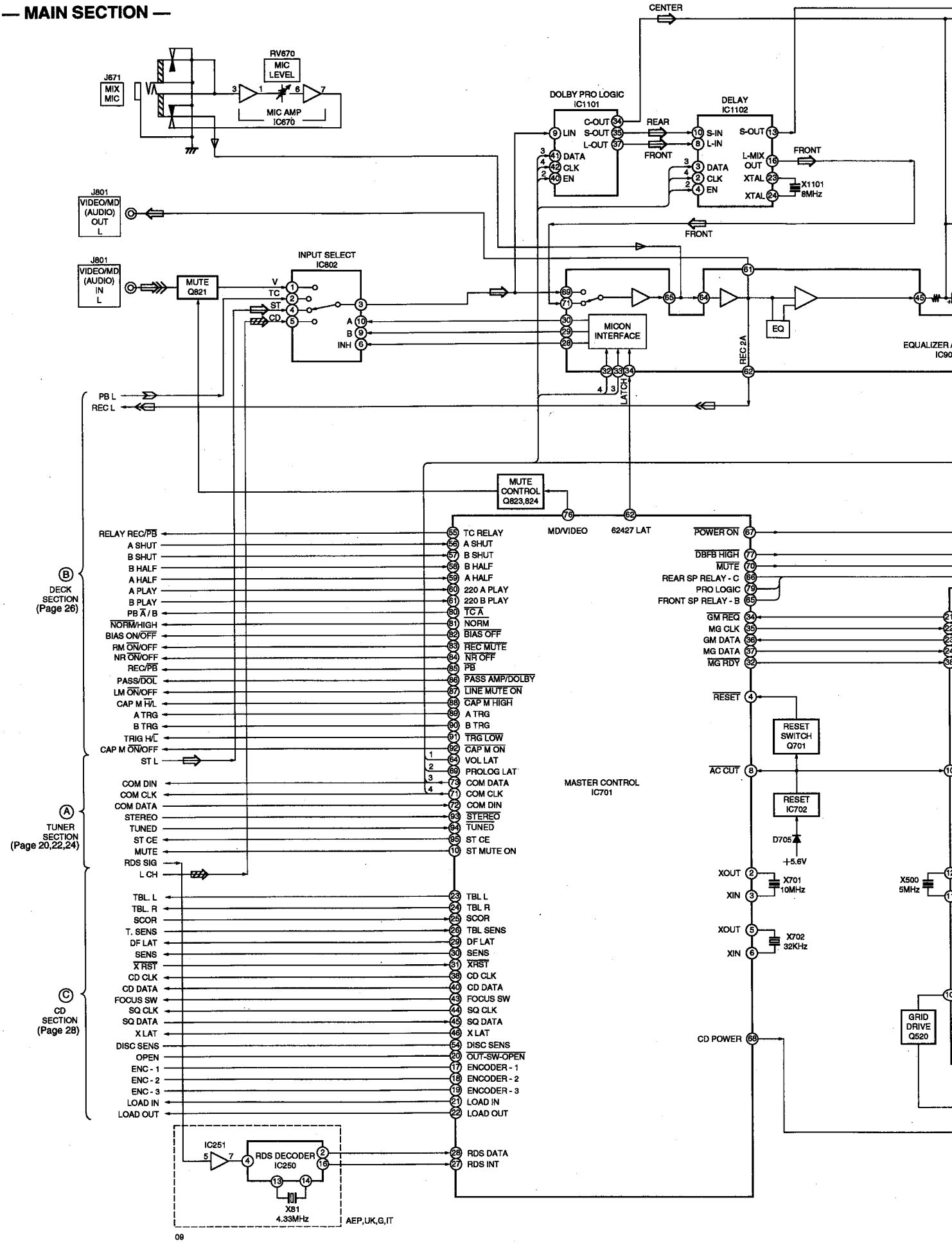
— CD SECTION —

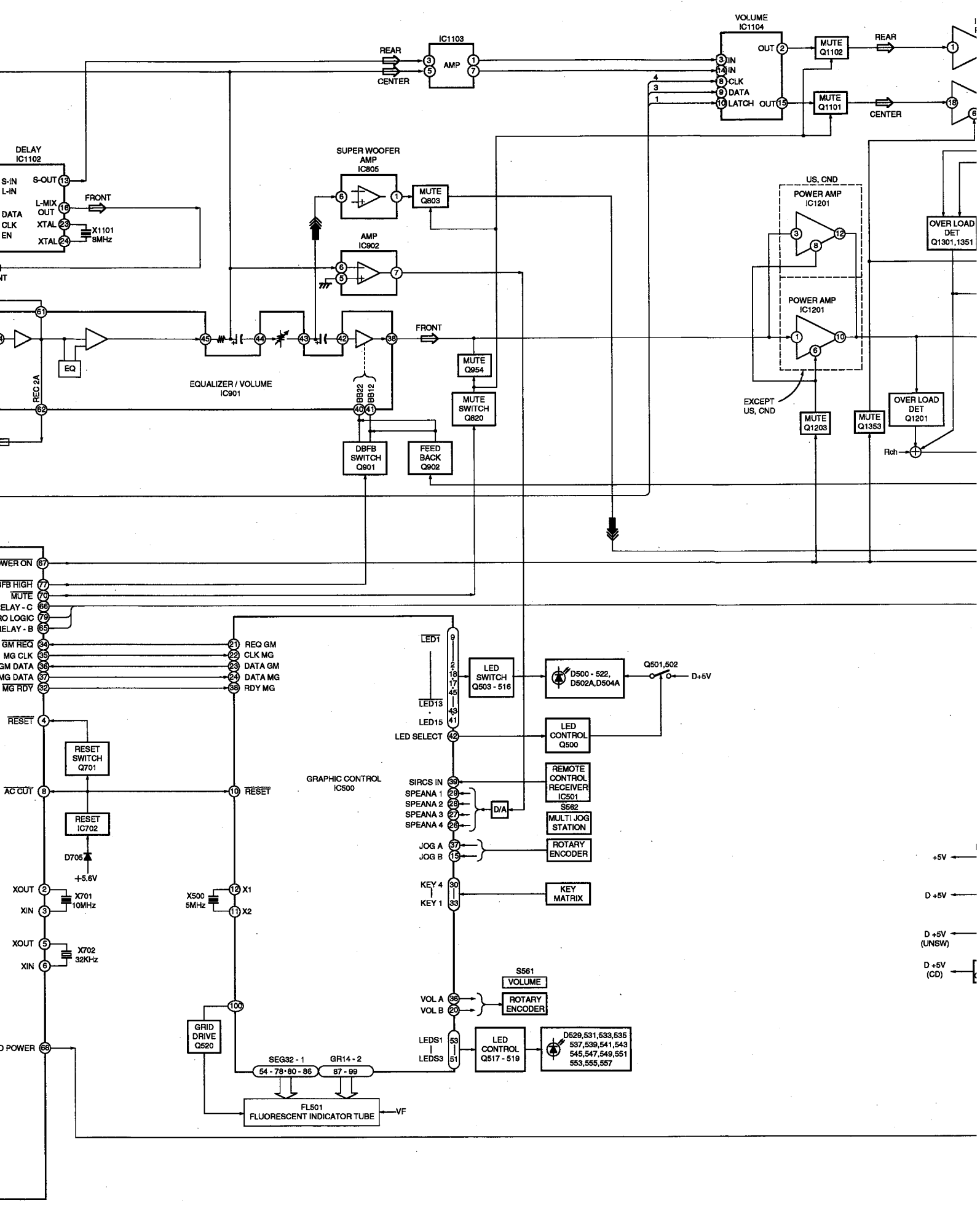

CD DIGITAL OUT OPTICAL
OPTICAL PICK-UP BLOCK
DETECTOR
B+
K
E
A
D
B
C
F
FOCUS/TRACKING SERVO. EFM COMPARATOR IC101 (1/2)
RF1
PD2
F
E
RFO
C.OUT
SENS
RF
CNIN
SEIN
DIGITAL SI
RV102
FOCUS GAIN
FEI
FEO
TEO
TEI
FOCUS BIAS
RV101
B+
FE BIAS
DATAO
XLTO
CLKO
MDP
FOK
XLON
FE-O
FE-M
TA-M
TAO
RV103
TRACKING GAIN
DATA
XLT
CLK
LD DRIVE Q101, 102
LD
FOK
LASER DIODE
PHD
FGD
FOCUS SW Q103
XRST
FOCUS COIL
TRACKING COIL
T+
T−
X RESET
TRACKING COIL DRIVE
2-AXIS DEVICE
FOCUS/TRACKING COIL DRIVE IC102 (1/2)
F−
F+
FOCUS COIL DRIVE
SLED/SPINDLE MOTOR DRIVE IC102 (2/2)
SLED SERVO IC101 (2/2)
M102 SLED MOTOR
SLED MOTOR DRIVE
SLO
SL+
M101 SPINDLE MOTOR
SPINDLE MOTOR DRIVE
09

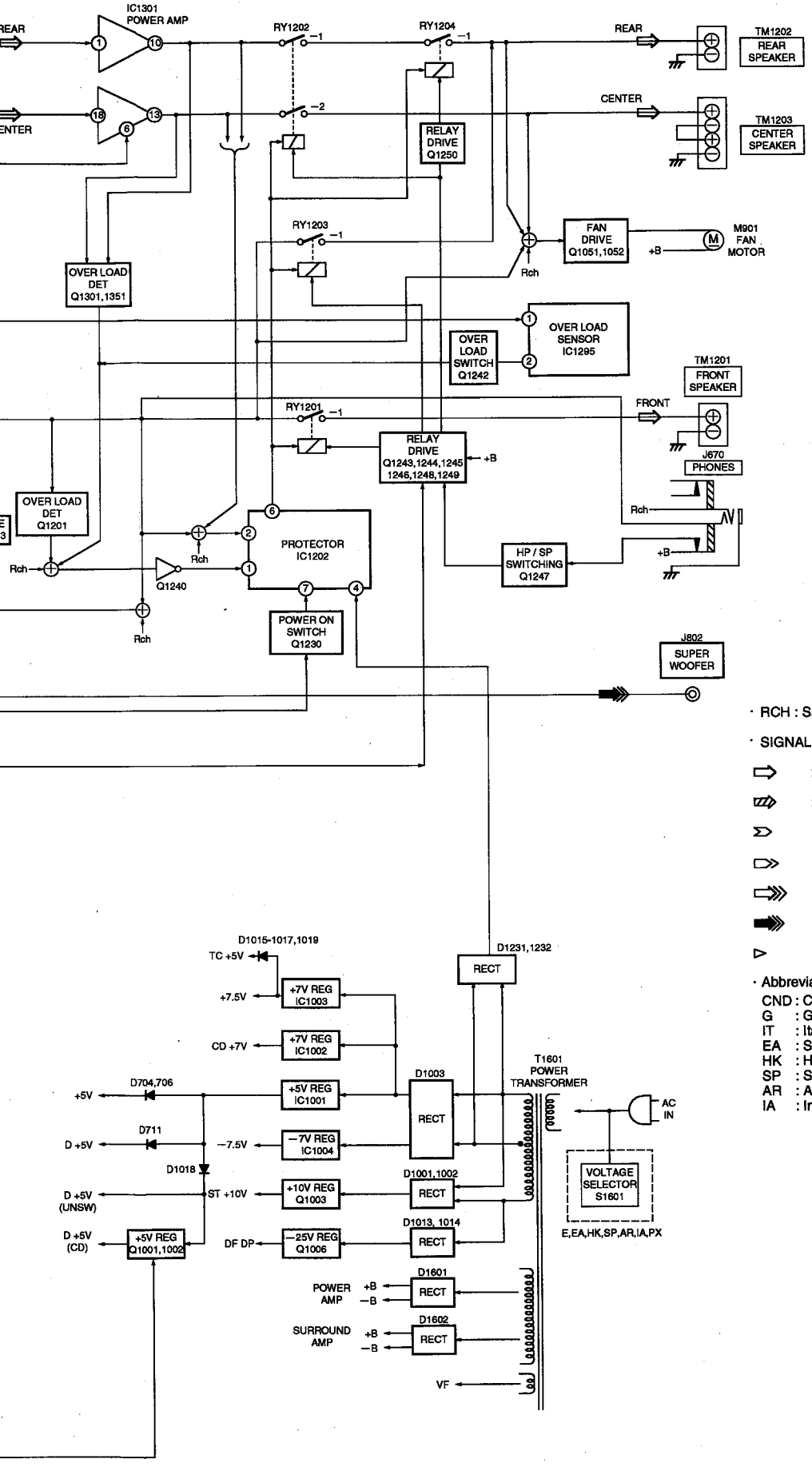


·R CH: Same as L ch
·SIGNAL PATH
: CD
: DIGITAL OUT

— MAIN SECTION —




VOLUME
IC1104
IC1103
REAR
CENTER
AMP
OUT
IN
CLK
DATA
LATCH
MUTE
Q1102
Q1101
DELAY
IC1102
S-IN
L-IN
DATA
CLK
EN
S-OUT
L-MIX
OUT
XTAL
X1101
8MHz
FRONT
SUPER WOOFER
AMP
IC805
MUTE
Q803
AMP
IC902
US, CND
POWER AMP
IC1201
OVER LOAD
DET
Q1301,1351
EQ
REQ 2A
EQUALIZER / VOLUME
IC901
BB22
BB12
MUTE
Q954
MUTE
SWITCH
Q820
EXCEPT
US, CND
MUTE
Q1203
MUTE
Q1353
OVER LOAD
DET
Q1201
Rch
DBFB
SWITCH
Q901
FEED
BACK
Q902
WER ON
FB HIGH
MUTE
ELAY - C
O LOGIC
ELAY - B
GM REQ
MG CLK
GM DATA
MG DATA
MG RDY
REQ GM
CLK MG
DATA GM
DATA MG
RDY MG
RESET
RESET
SWITCH
Q701
AC OUT
RESET
RESET
IC702
D705
+5.6V
XOUT
XIN
X701
10MHz
X500
5MHz
X1
X2
XOUT
XIN
X702
32KHz
GRAPHIC CONTROL
IC500
LED1
LED13
LED15
LED SELECT
LED
SWITCH
Q503 - 516
D500 - 522,
D502A,D504A
Q501,502
D+5V
LED
CONTROL
Q500
SIRCS IN
SPEANA 1
SPEANA 2
SPEANA 3
SPEANA 4
D/A
REMOTE
CONTROL
RECEIVER
IC501
S562
MULTI JOG
STATION
JOG A
JOG B
ROTARY
ENCODER
KEY 4
KEY 1
KEY
MATRIX
S561
VOLUME
VOL A
VOL B
ROTARY
ENCODER
GRID
DRIVE
Q520
LEDS1
LEDS3
LED
CONTROL
Q517 - 519
D529,531,533,535
537,539,541,543
545,547,549,551
553,555,557
SEG32 - 1
54 - 78 - 80 - 86
GR14 - 2
87 - 99
FL501
FLUORESCENT INDICATOR TUBE
VF
+5V
D +5V
D +5V
(UNSW)
D +5V
(CD)
D POWER



· RCH : Same as L ch

· SIGNAL PATH

⇨ : FM

⇨ : CD

⇨ : PB

⇨ : REC

⇨ : VIDEO

⇨ : SUPER WOOFER

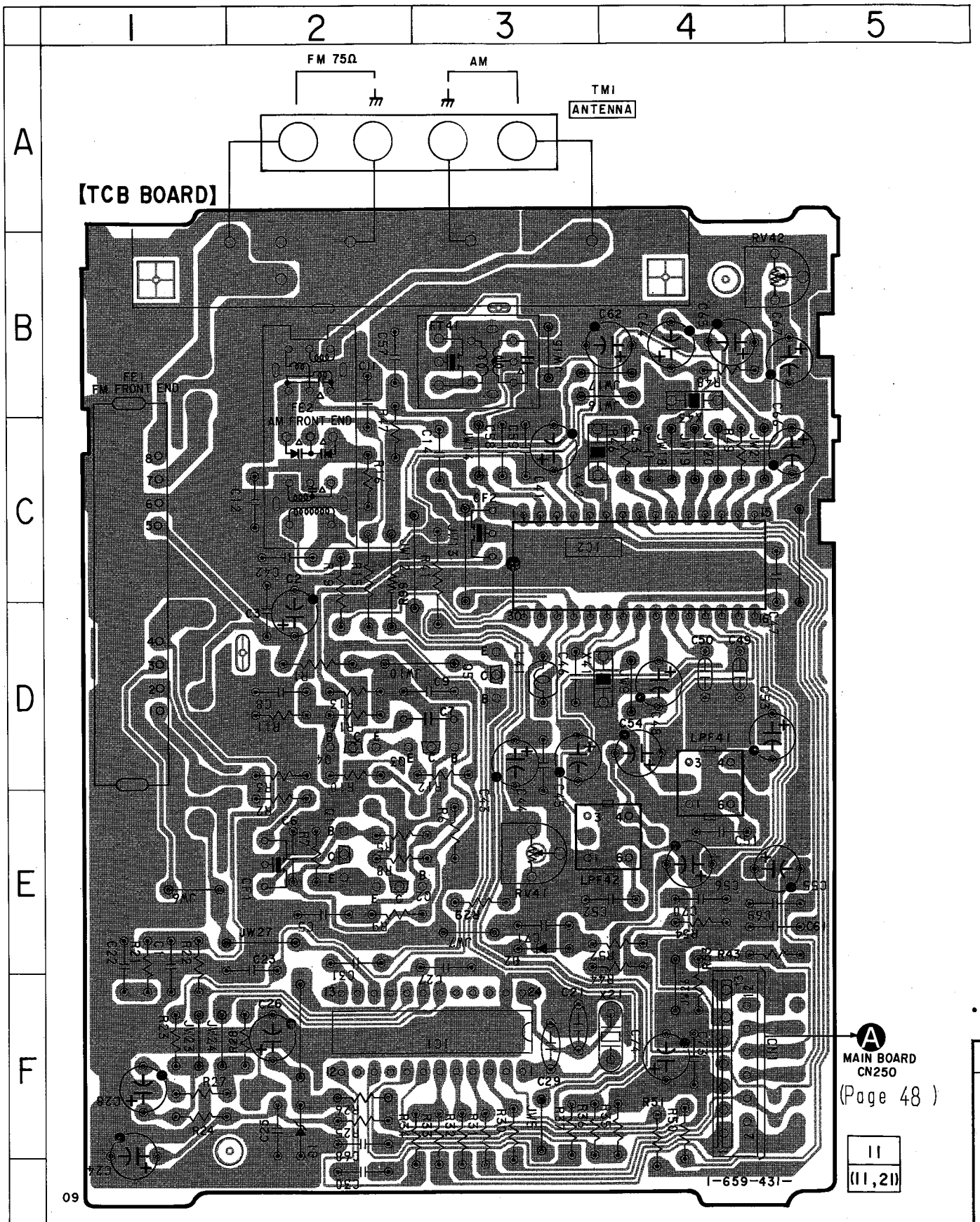
▷ : MIC

· Abbreviation

CND : Canadian model.
G : German model.
IT : Italian model.
EA : Saudi Arabia model.
HK : Hong Kong model.
SP : Singapore model.
AR : Argentine model.
IA : Indonesian model.

6-3. PRINTED WIRING BOARD — TUNER SECTION — (US, CND, E2, AR, AUS, TH MODEL)

• See page 18 for Circuit Boards Location.



Note:

- ⟷ : parts extracted from the component side.
- △ : Internal component.
- ▬ : Pattern from the side which enable seeing.

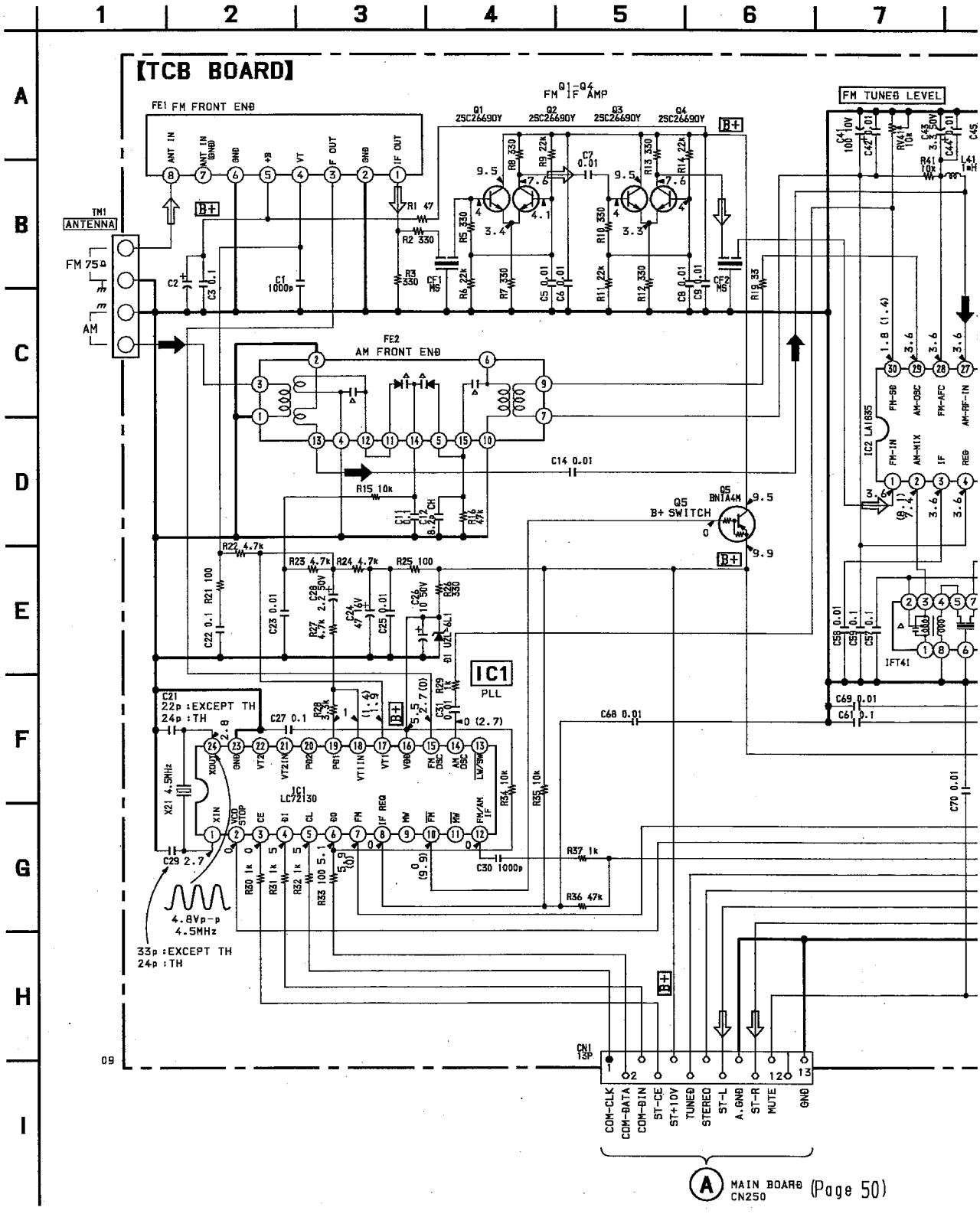
- Abbreviation
  - CND : Canadian model.
  - AUS : Australian model.
  - AR : Argentine model.
  - TH : Thialand model.
  - E2 : Without SW tuner model.

- Semicond Location

Ref. No.	L
D1	F
D2	E
IC1	F
IC2	C
Q1	E
Q2	E
Q3	D
Q4	D
Q5	D

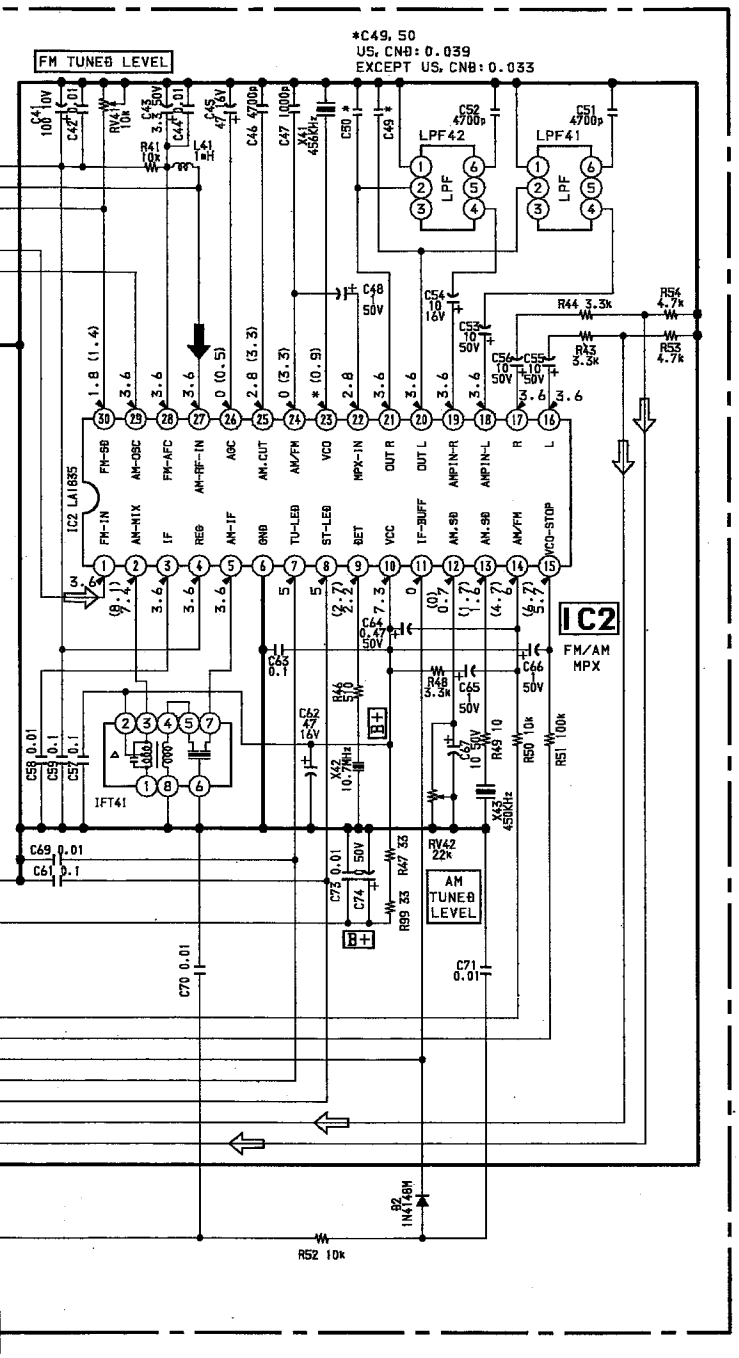
6-4. SCHEMATIC DIAGRAM — TUNER SECTION — (US, CND, E2, AR, AUS, TH MODEL)

• See page 44 for IC Block Diagrams.



• **Semiconductor Location**

Ref. No.	Location
D1	F-2
D2	E-3
IC1	F-3
IC2	C-3
Q1	E-2
Q2	E-2
Q3	D-2
Q4	D-2
Q5	D-3



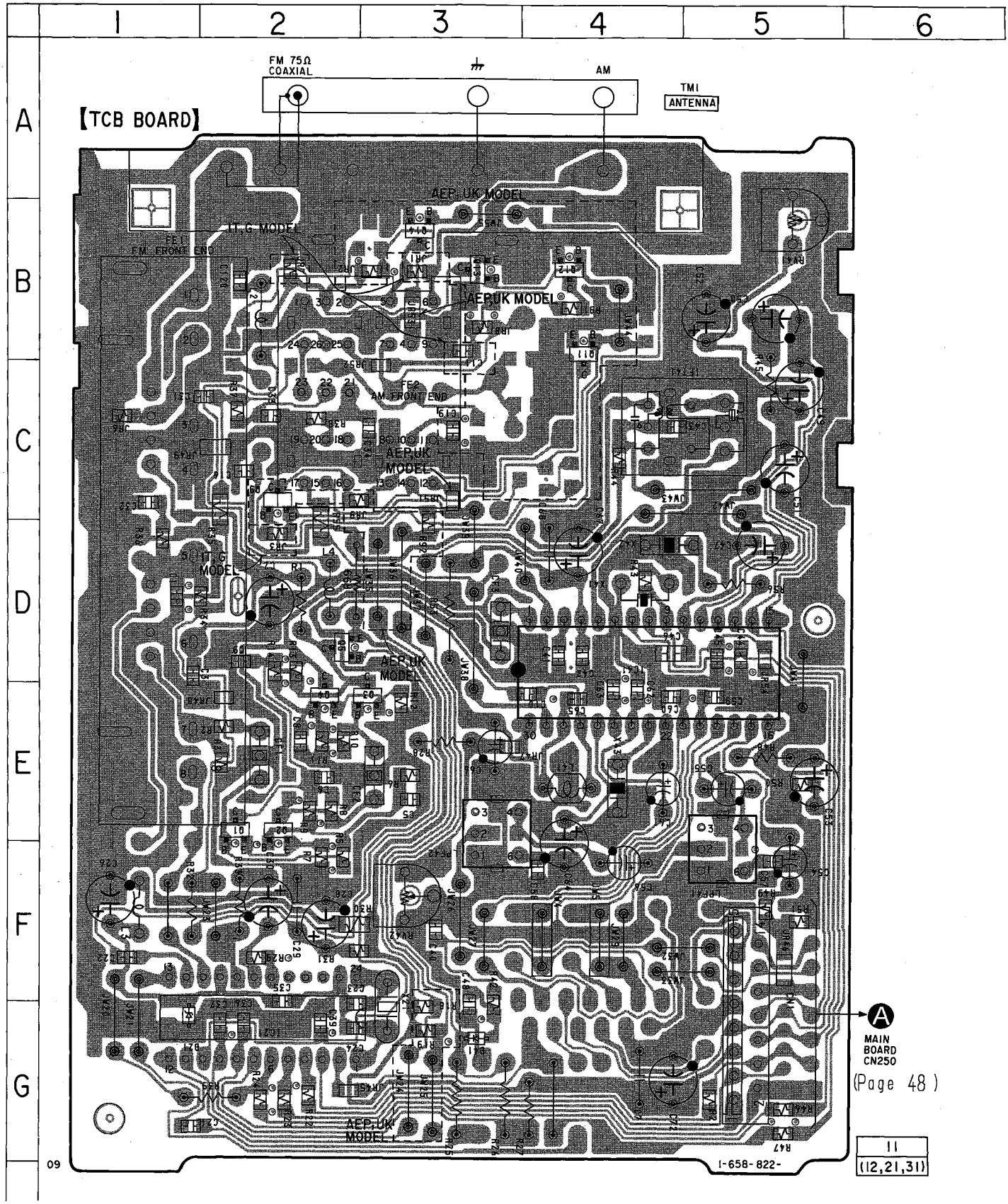
NOTE

- All capacitors are in μF unless otherwise noted. pF: μμF
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.
- B+ : B+ Line.
- ▭ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark: FM
  ( ): AM
  * : can not be measured.
- Voltages are taken with a VOM (Input impedance 10MΩ).
  Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Abbreviation
  CND: Canadian model.
  AR : Argentine model.
  AUS: Australian model.
  TH : Thailand model.
  E2 : Without SW tuner model.
- Signal path.
  ⇨ : FM
  ➡ : AM

(Page 50)

6-5. PRINTED WIRING BOARD — TUNER SECTION — (AEP, UK, G, IT MODEL)

• See page 18 for Circuit Boards Location.



• **Semicond Location**

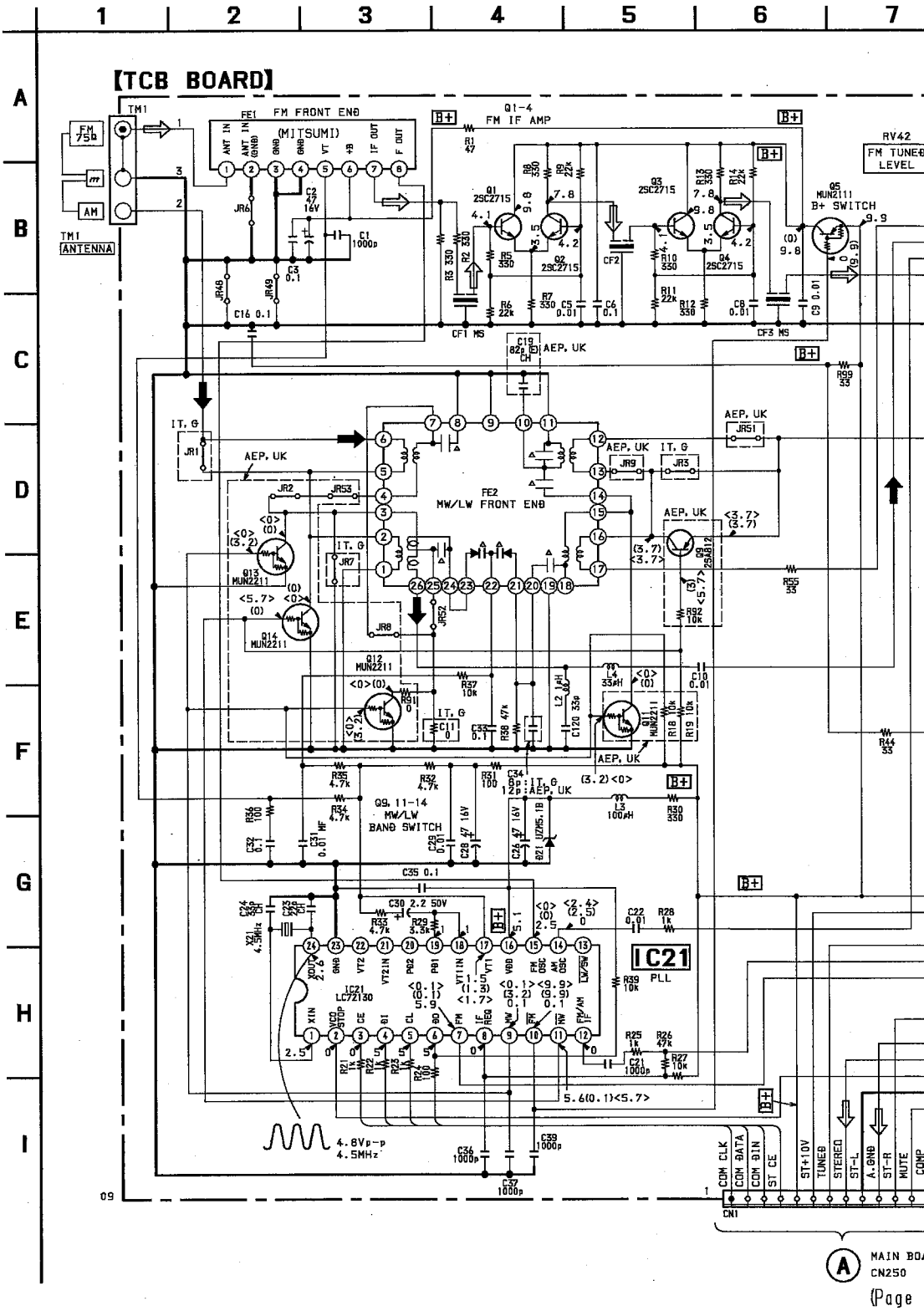
Ref. No.	Lo
D21	G
D41	G
IC21	G
IC41	D
Q1	E
Q2	E
Q3	E
Q4	E
Q5	D
Q9	C
Q11	B
Q12	B
Q13	B
Q14	B

Note:

- ⟜—— : parts extracted from the component side.
- △ : Internal component.
- ▒▒ : Pattern from the side which enable seeing.

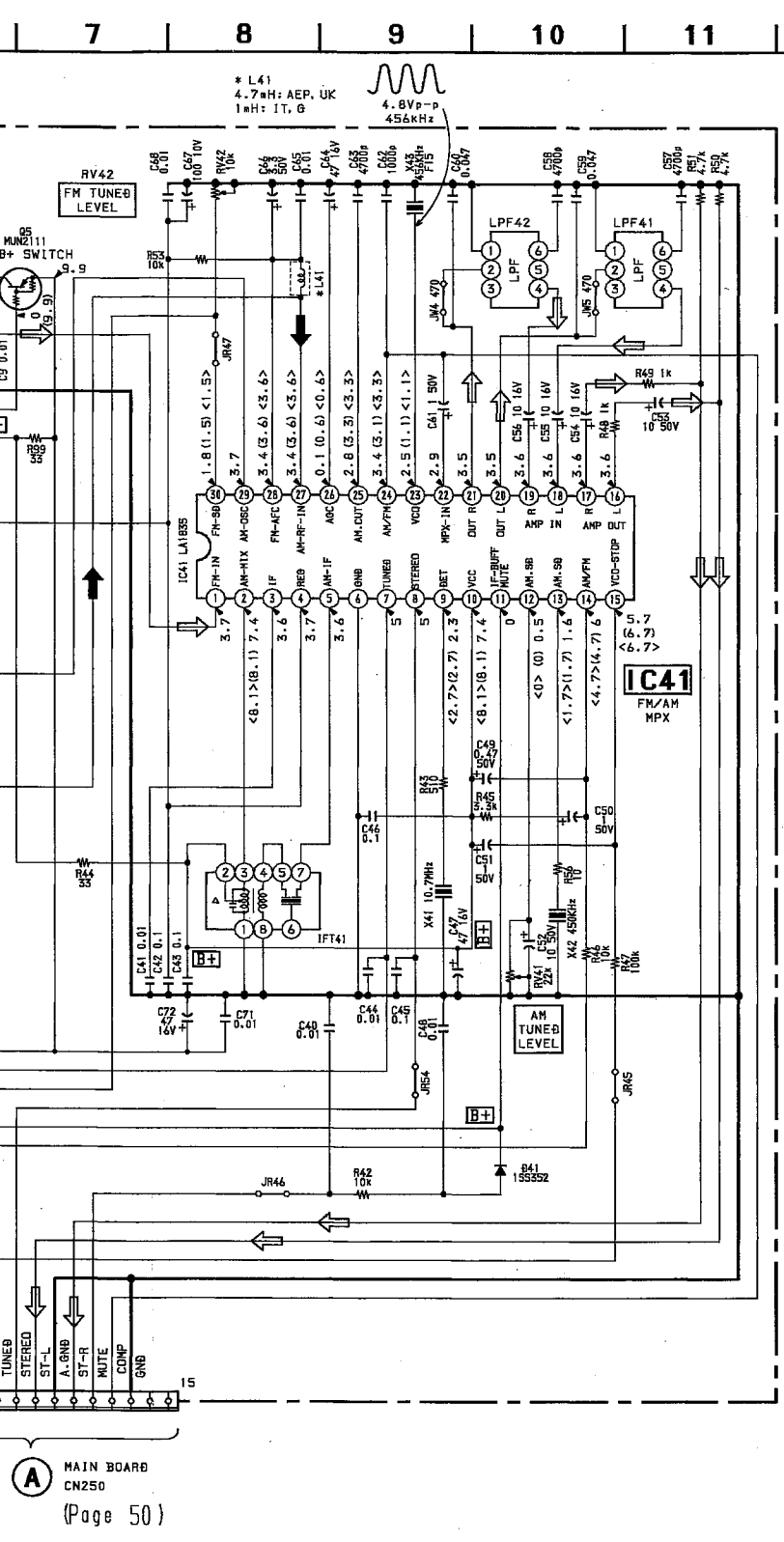
- Abbreviation
  G : German model.
  IT : Italian model.

6-6. SCHEMATIC DIAGRAM — TUNER SECTION — (AEP, UK, G, IT MODEL)



- **Semiconductor Location**

Ref. No.	Location
D21	G-1
D41	G-3
IC21	G-2
IC41	D-4
Q1	E-2
Q2	E-2
Q3	E-3
Q4	E-2
Q5	D-2
Q9	C-2
Q11	B-4
Q12	B-4
Q13	B-3
Q14	B-3

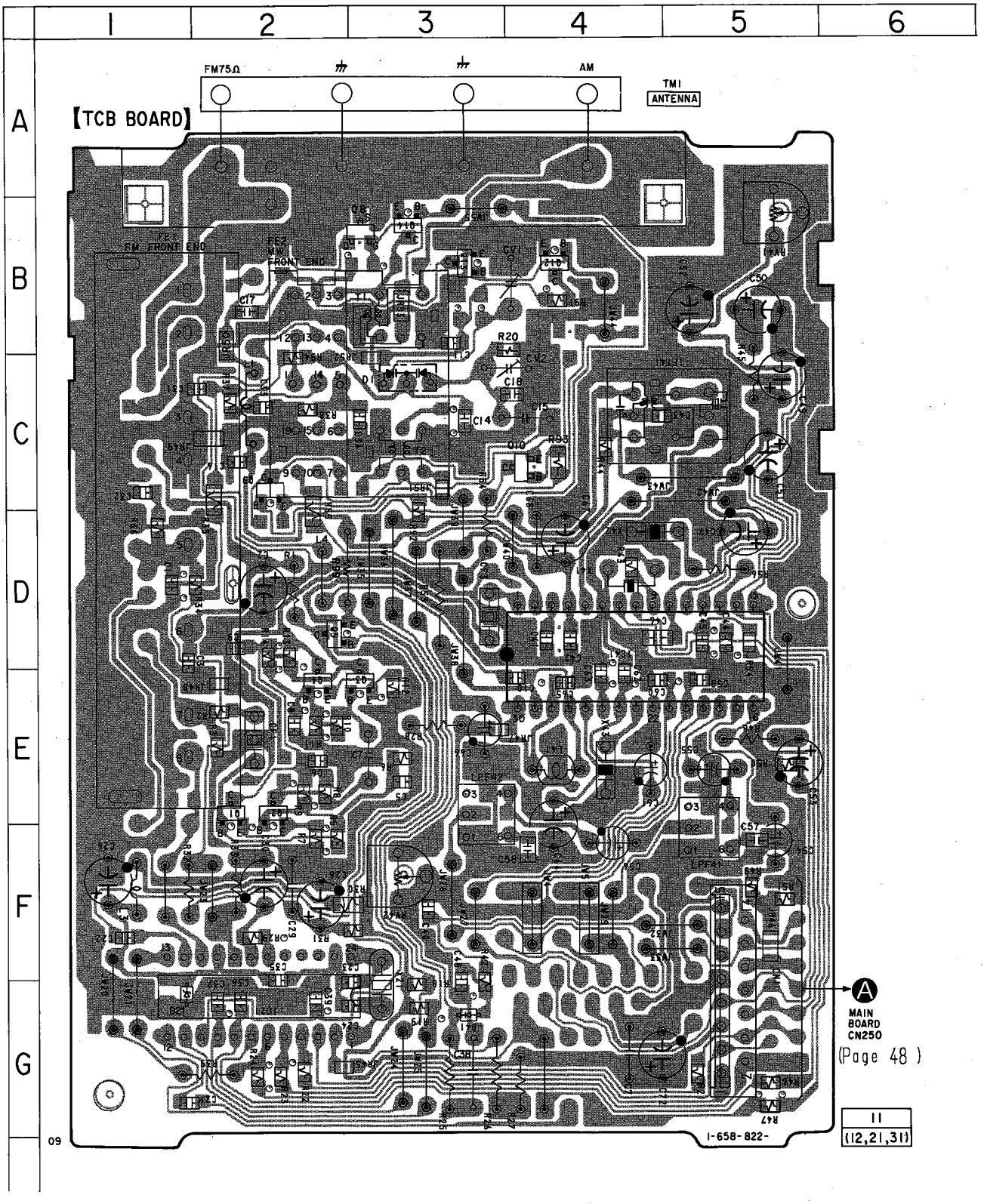


NOTE

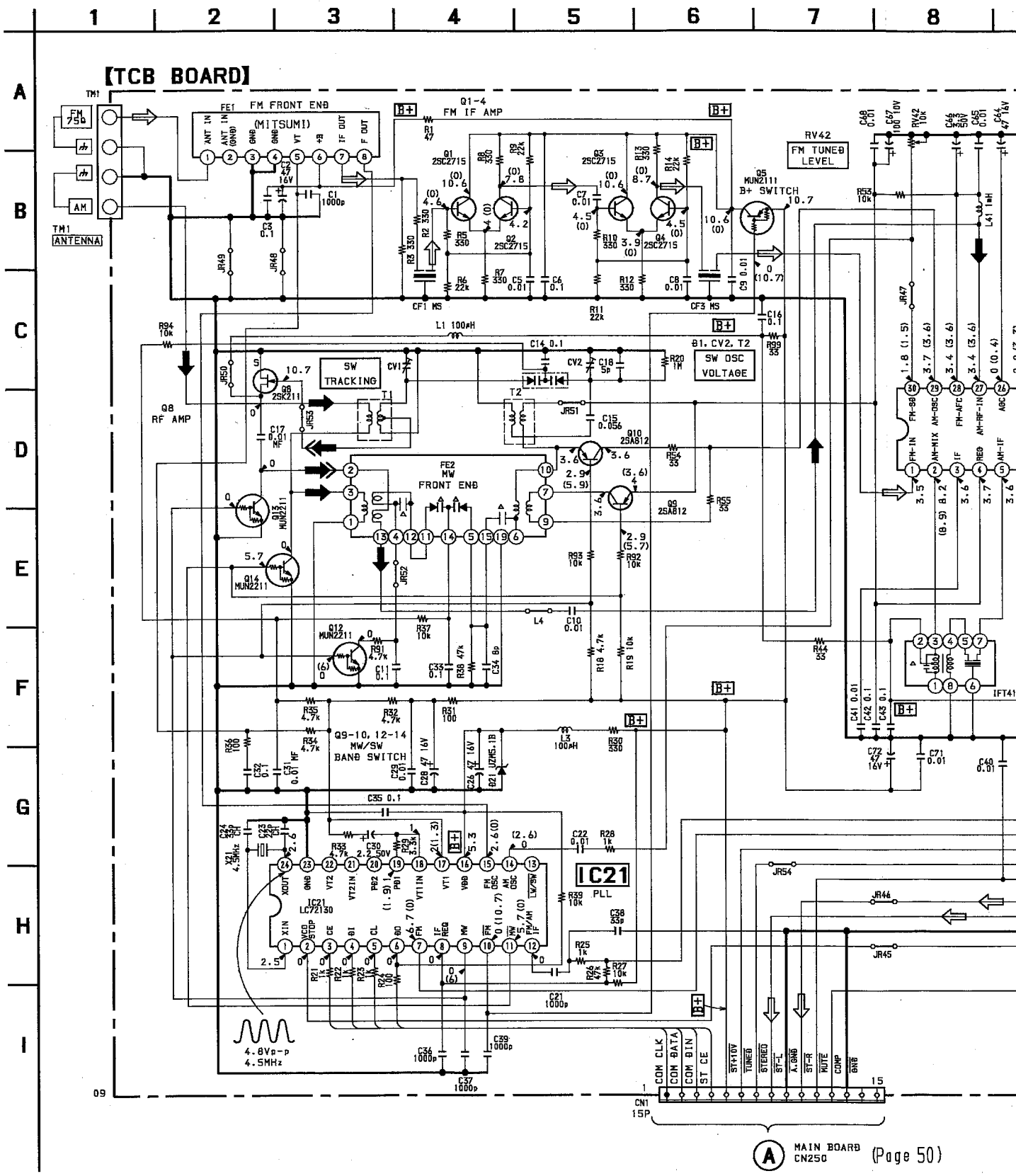
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ :internal component.
- ▭ :panel designation.
- B+ :B+ Line.
- ▭ :adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark: FM
  ( ): MW
  < >: LW
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Abbreviation
  G :German model.
  IT :Italian model.
- Signal path.
  ⇨ :FM
  ➡ :AM

6-7. PRINTED WIRING BOARD — TUNER SECTION — (E3, EA, HK, SP, MY, IA, PX MODEL)

• See page 18 for Circuit Boards Location.

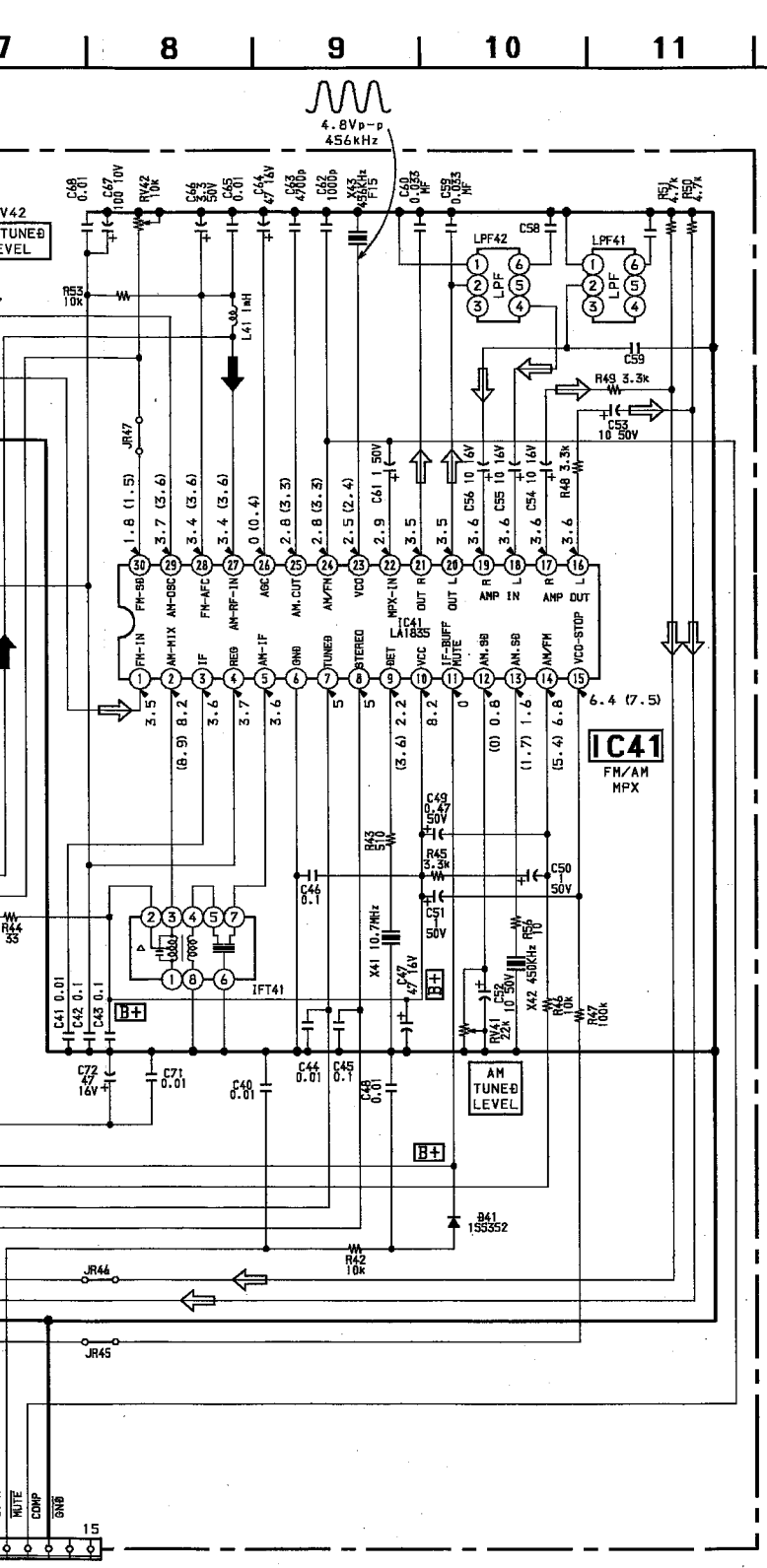


6-8. SCHEMATIC DIAGRAM — TUNER SECTION — (E3, EA, HK, SP, MY, IA, PX MODEL)



miconductor cation

No.	Location
	C-3
	G-1
	G-4
1	G-2
1	E-5
	F-2
	F-3
	E-3
	E-3
	E-3
	B-3
	D-3
0	D-4
2	B-5
3	B-4
4	B-3



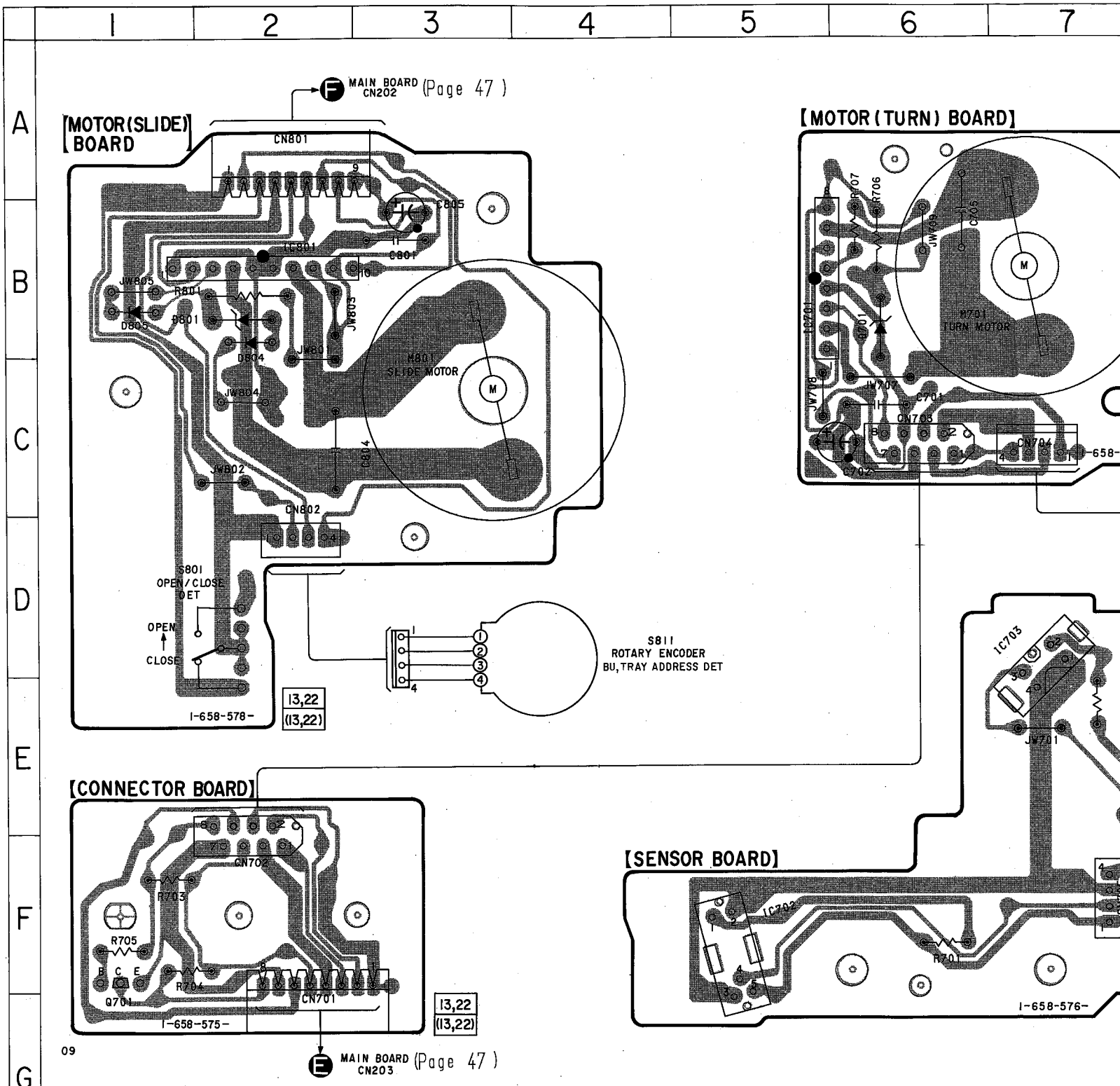
NOTE

- All capacitors are in μF unless otherwise noted. pF: μμF
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.
- B+ : B+ Line.
- ▭ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark: FM
  ( ) : AM
- Voltages are taken with a VOM (Input impedance 10MΩ).
  Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Abbreviation
  EA : Saudi Arabia model.
  HK : Hong Kong model.
  SP : Singapore model.
  MY : Malaysia model.
  IA : Indonesian model.
  E3 : With SW tuner model.
- Signal path.
  ⇨ : FM
  ➡ : MW
  ➡ : SW

N BOARD 250 (Page 50)

6-9. PRINTED WIRING BOARD — CD MOTOR SECTION —

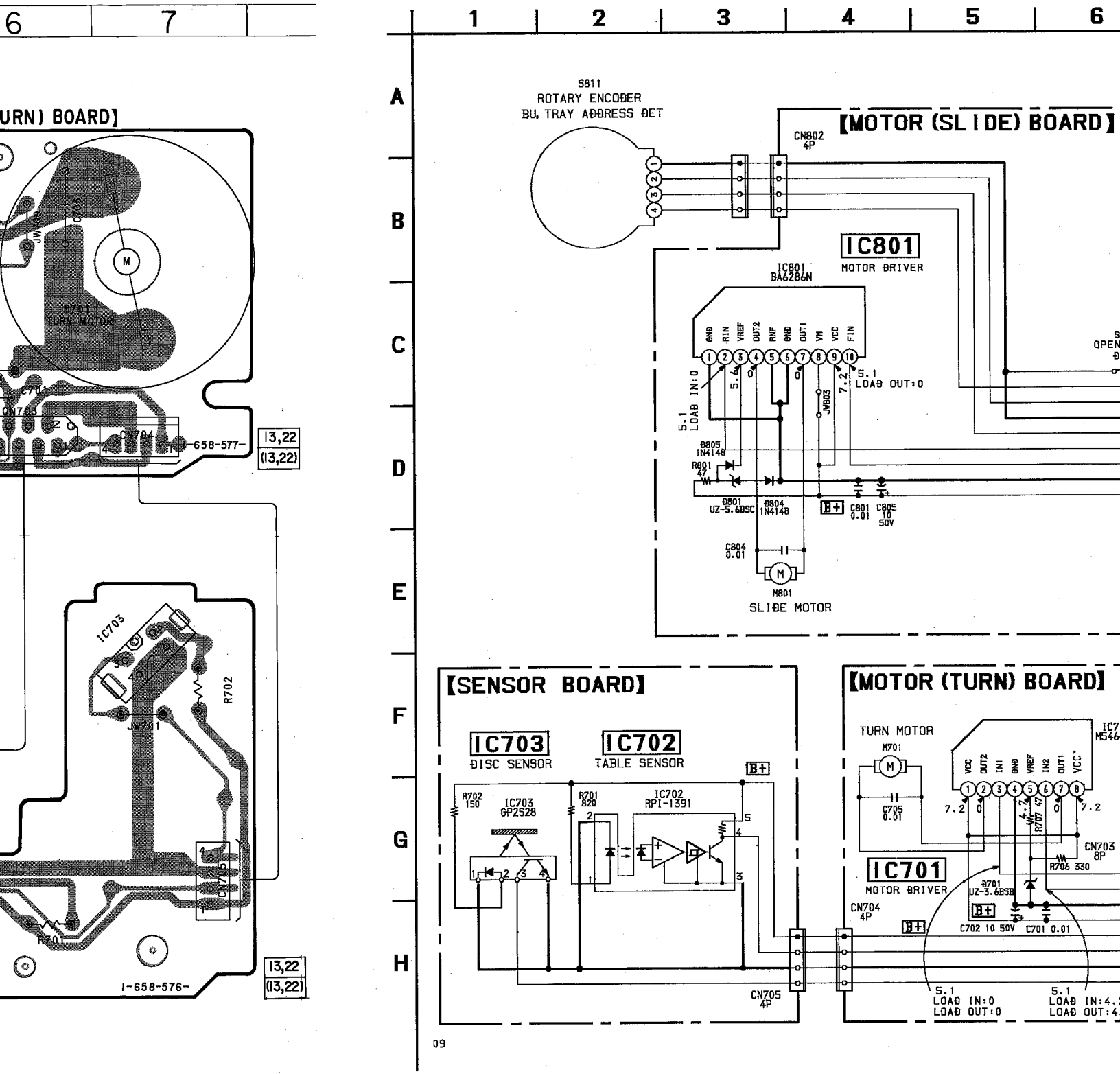
• See page 18 for Circuit Boards Location.



Note:

- ⟜—— : parts extracted from the component side.
- ▬ : Pattern from the side which enable seeing.

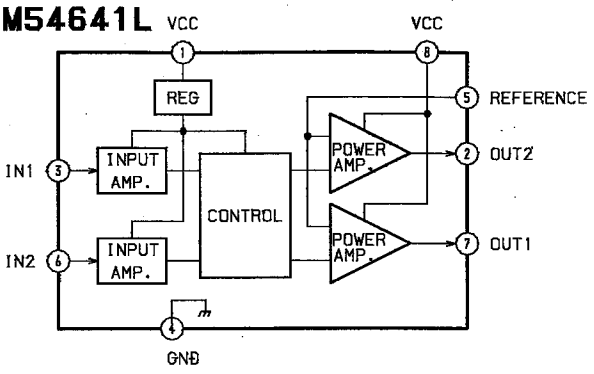
6-10. SCHEMATIC DIAGRAM — CD MOTOR SECTION —



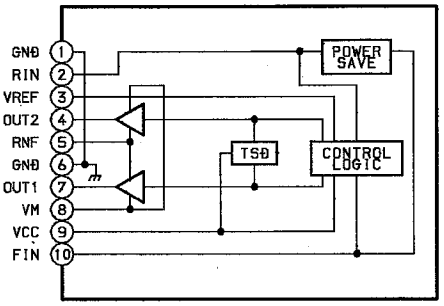
side.
eeing.

5 | 6 | 7 | 8 | 9 | 10 | 11 | 12

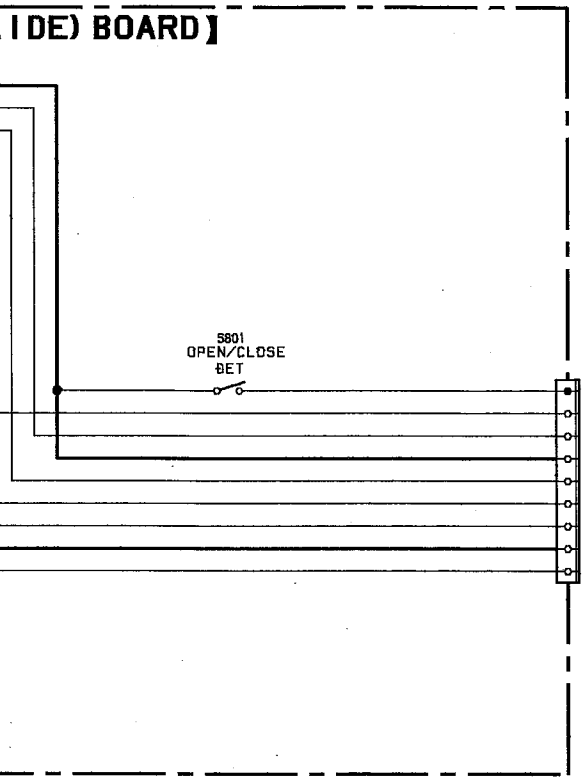
IC701 M54641L



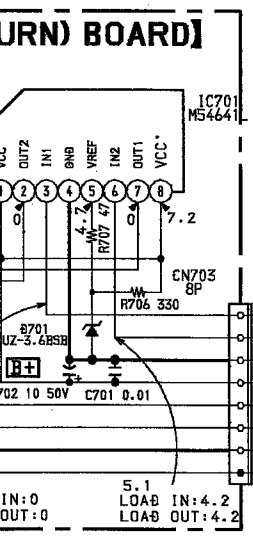
IC801 BA6286N



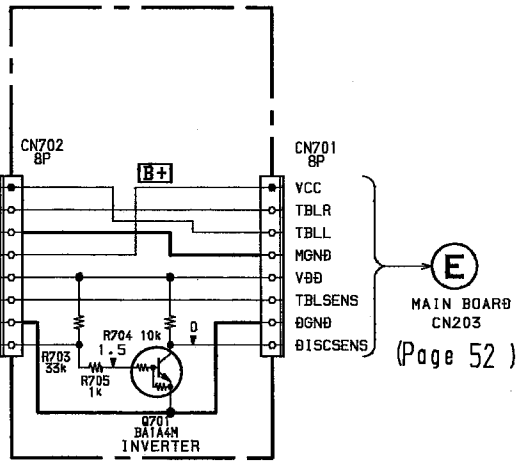
I DE) BOARD]



URN) BOARD]



[CONNECTOR BOARD]

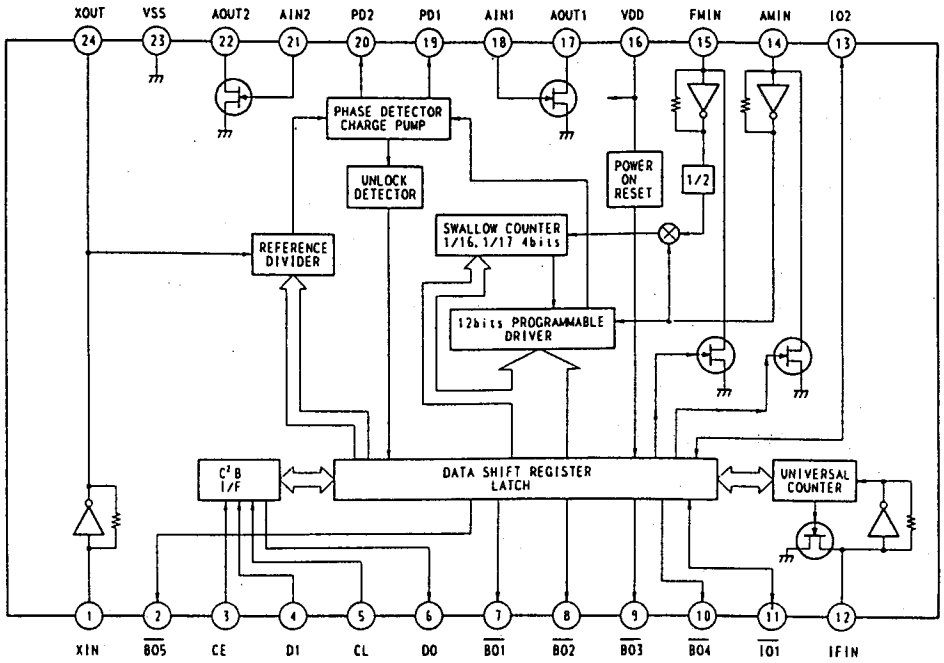


NOTE

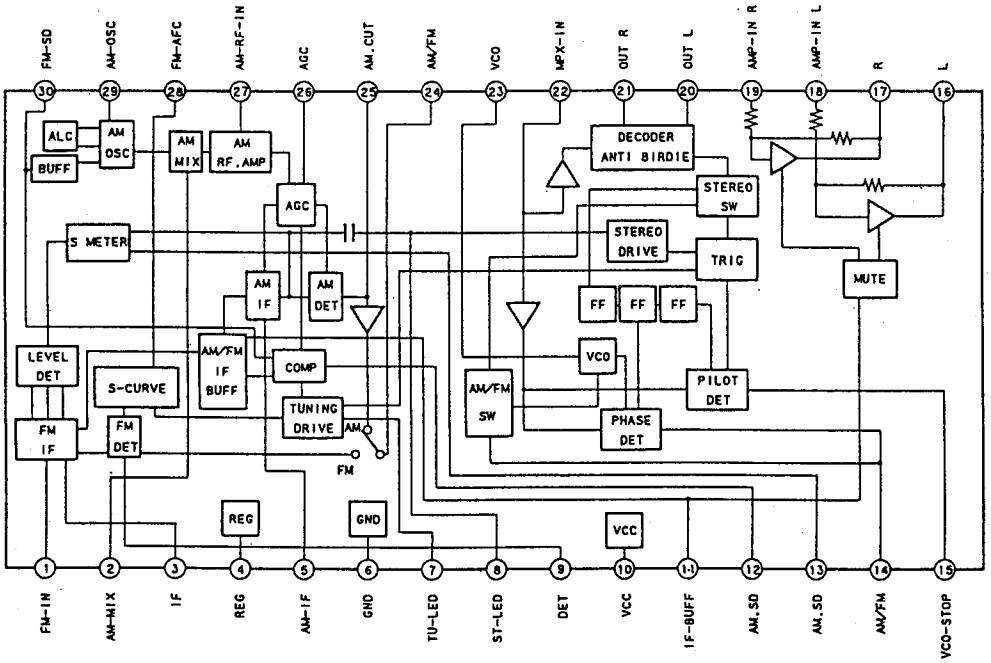
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- B+ :B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark: STOP
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.

6-11. IC BLOCK DIAGRAMS — TUNER SECTION —

IC1, 21 LC72130

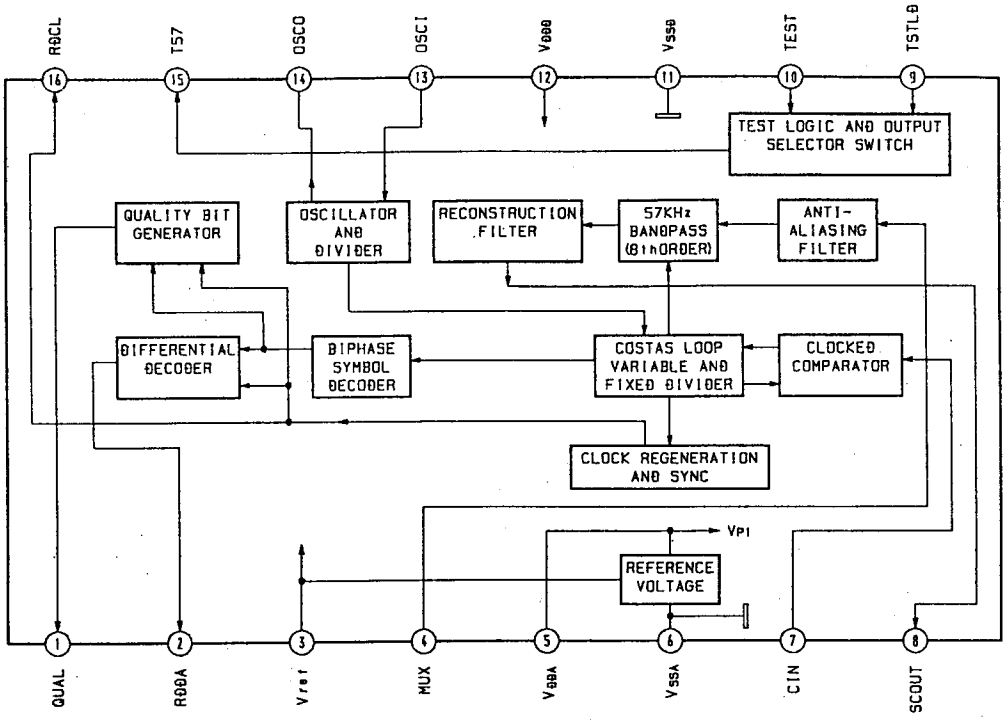


IC2, 41 LA1835

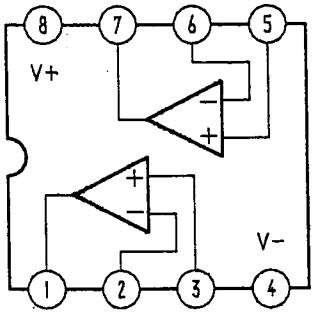


• **IC Block Diagrams**

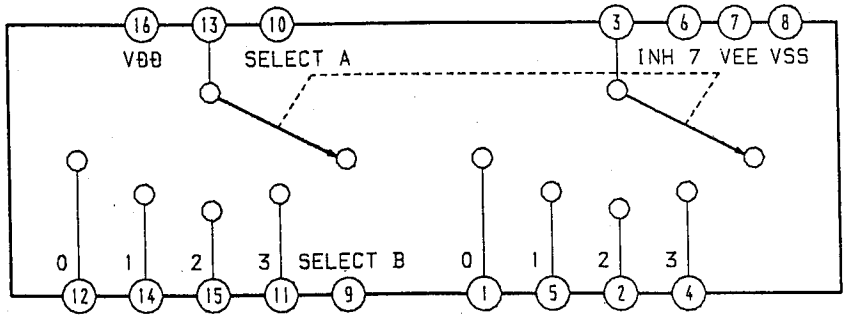
IC250 SAA6579T



IC251 RC4558P



IC802 MC14052BCP



• **Semiconductor Location**

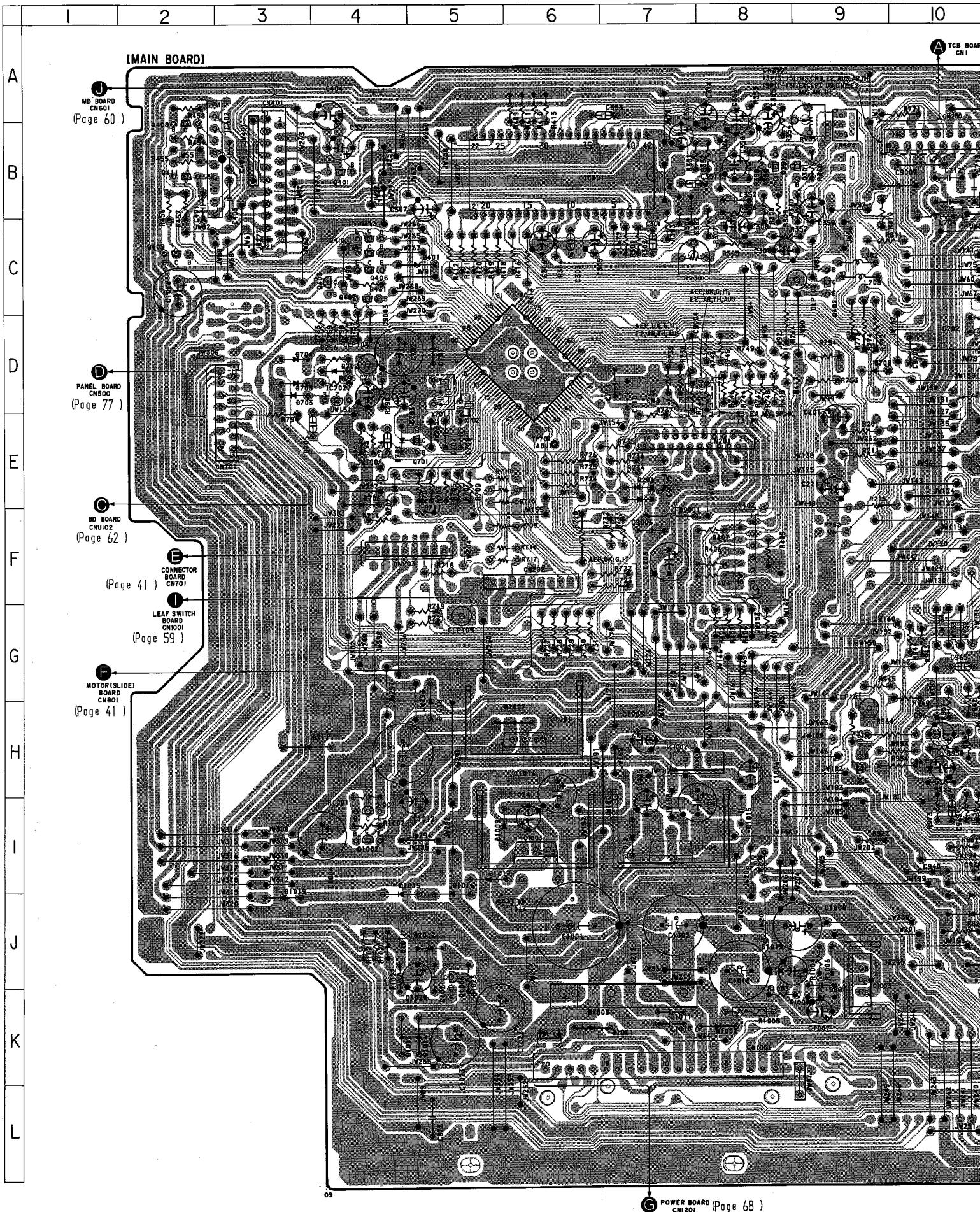
Ref. No.	Location	Ref. No.	Location
D201	E-7	IC1001	H-6
D202	E-7	IC1002	H-7
D251	C-12	IC1003	I-6
D401	C-5	IC1004	I-8
D701	E-4	IC1101	I-15
D702	D-4	IC1102	H-15
D703	D-3	IC1103	F-15
D704	D-3	IC1104	E-12
D705	D-3		
D706	E-4	Q301	B-9
D707	E-4	Q351	B-8
D708	D-9	Q401	B-4
D901	J-10	Q402	C-9
D902	J-10	Q403	C-4
D1001	K-7	Q406	C-4
D1002	K-8	Q407	C-4
D1003	K-6	Q408	B-2
D1007	H-6	Q409	C-2
D1008	K-9	Q410	C-4
D1009	I-5	Q411	B-2
D1010	I-7	Q412	C-4
D1011	J-4	Q701	E-5
D1012	J-5	Q820	H-9
D1013	K-4	Q821	D-15
D1014	K-5	Q822	D-15
D1015	J-4	Q823	D-15
D1016	J-5	Q824	D-14
D1017	I-5	Q830	L-16
D1018	H-5	Q901	J-12
D1019	J-3	Q902	J-12
		Q951	H-11
IC201	A-16	Q952	H-10
IC250	B-12	Q953	K-11
IC251	B-13	Q954	L-12
IC401	B-6	Q1001	I-4
IC402	A-3	Q1002	I-4
IC701	D-6	Q1003	J-9
IC702	D-4	Q1006	J-5
IC802	B-15	Q1051	K-13
IC805	L-14	Q1052	K-12
IC901	I-11	Q1101	D-11
IC902	L-14	Q1102	D-11

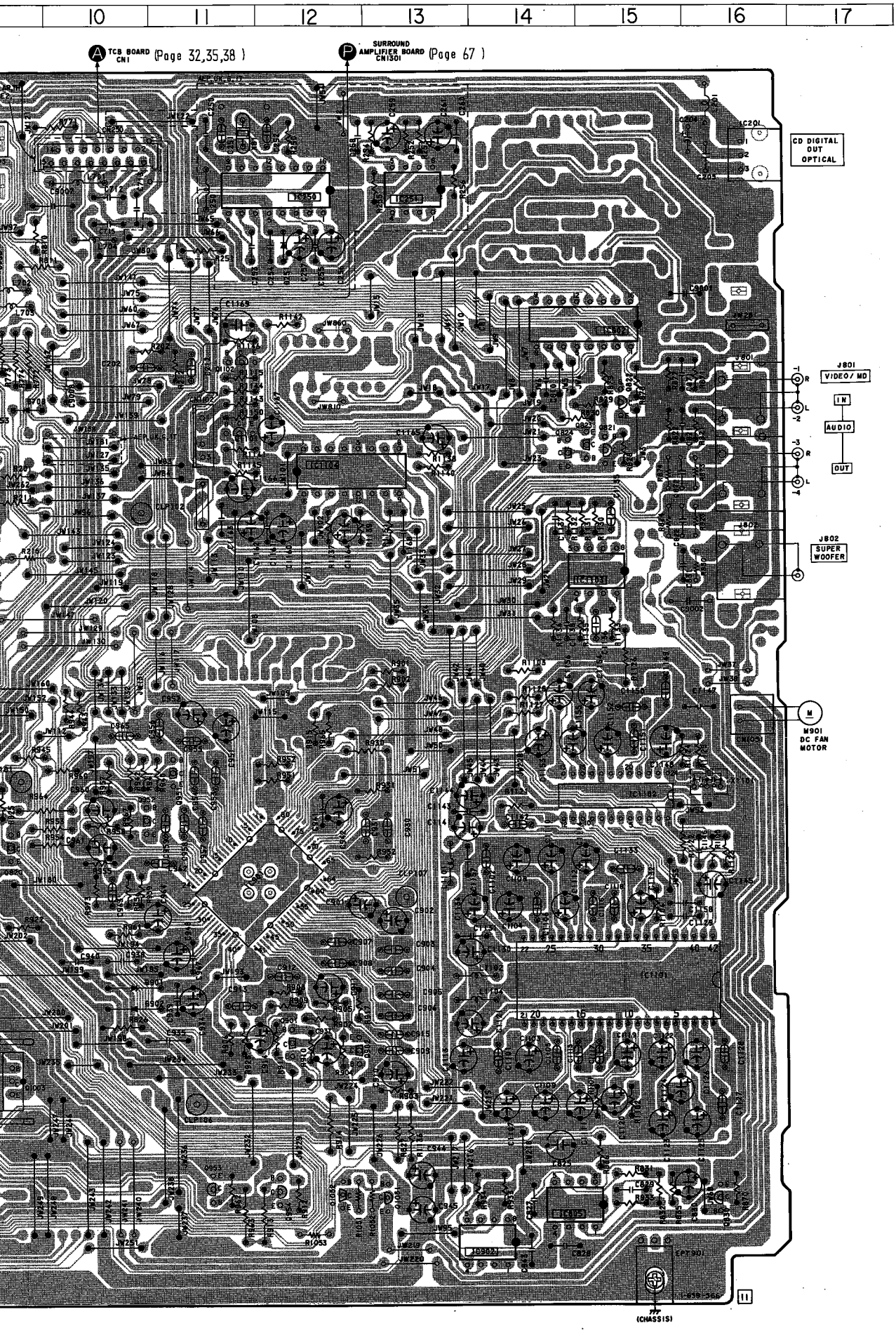
Note:

- o—— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- △ : Internal component.
- ▒▒ : Pattern from the side which enable seeing.
- Abbreviation
  - CND : Canadian model.
  - G : German model.
  - IT : Italian model.
  - EA : Saudi Arabia model.
  - HK : Hong Kong model.
  - SP : Singapore model.
  - MY : Malaysia model.
  - AUS : Australian model.
  - AR : Argentine model.
  - TH : Thailand model.
  - IA : Indonesian model.
  - E2 : Without SW tuner model.
  - E3 : With SW tuner model.

6-12. PRINTED WIRING BOARD — MAIN SECTION —

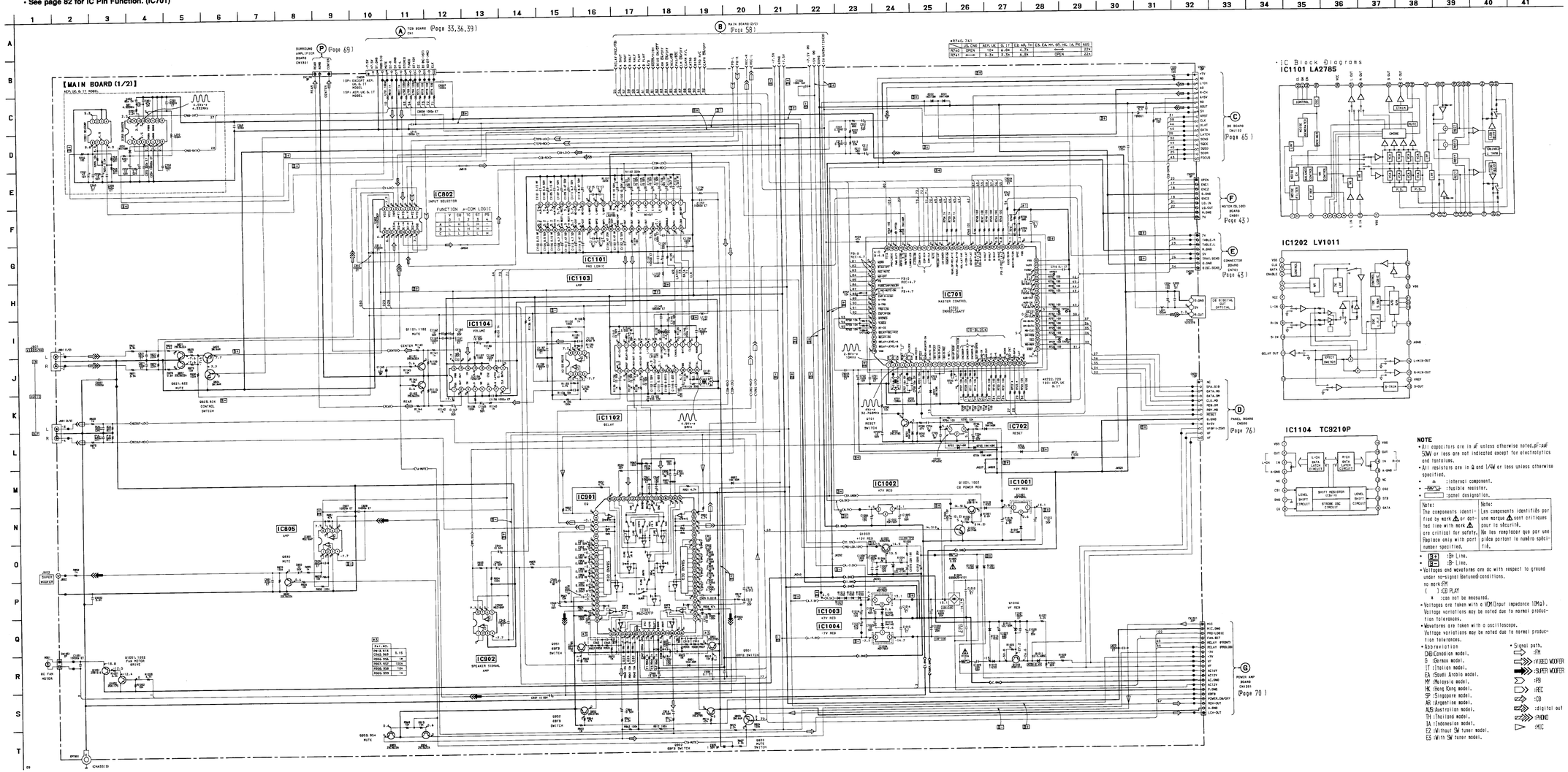
- **See page 18 for Circuit Boards Location.**
- **See page 54 for Schematic Diagram. (MAIN BOARD (2/2))**


[MAIN BOARD]
A TCB BOARD CN1
J MD BOARD CN601 (Page 60)
D PANEL BOARD CN500 (Page 77)
C BD BOARD CNU102 (Page 62)
E CONNECTOR BOARD CN701 (Page 41)
I LEAF SWITCH BOARD CN1001 (Page 59)
F MOTOR(SLIDE) BOARD CN801 (Page 41)
G POWER BOARD CN1201 (Page 68)


10
11
12
13
14
15
16
17
A TCB BOARD CN1 (Page 32,35,38)
P SURROUND AMPLIFIER BOARD CN1301 (Page 67)
CD DIGITAL OUT OPTICAL
J801 VIDEO/MD
IN
AUDIO
OUT
J802 SUPER WOOFER
M901 DC FAN MOTOR
(CHASSIS)

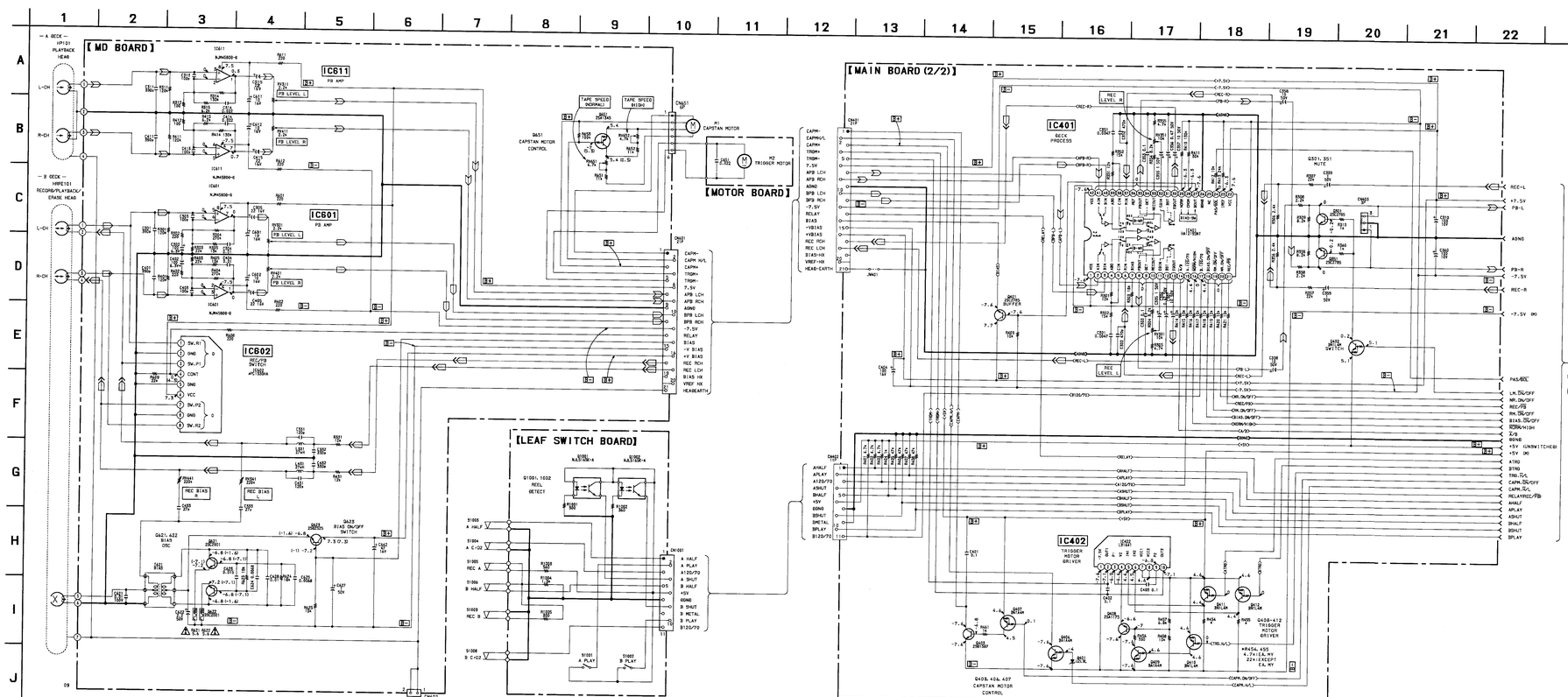
6-13. SCHEMATIC DIAGRAM — MAIN SECTION —

• See page 82 for IC Pin Function. (IC701)



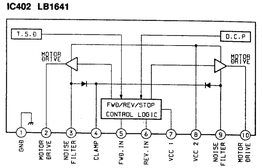
6-14. SCHEMATIC DIAGRAM — DECK SECTION —

• See page 47 for Printed Wiring Board. (MAIN BOARD)

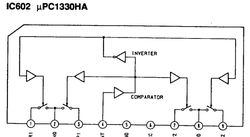


• IC Block Diagrams

IC402 LB1641



IC602 μPC1330HA



NOTE

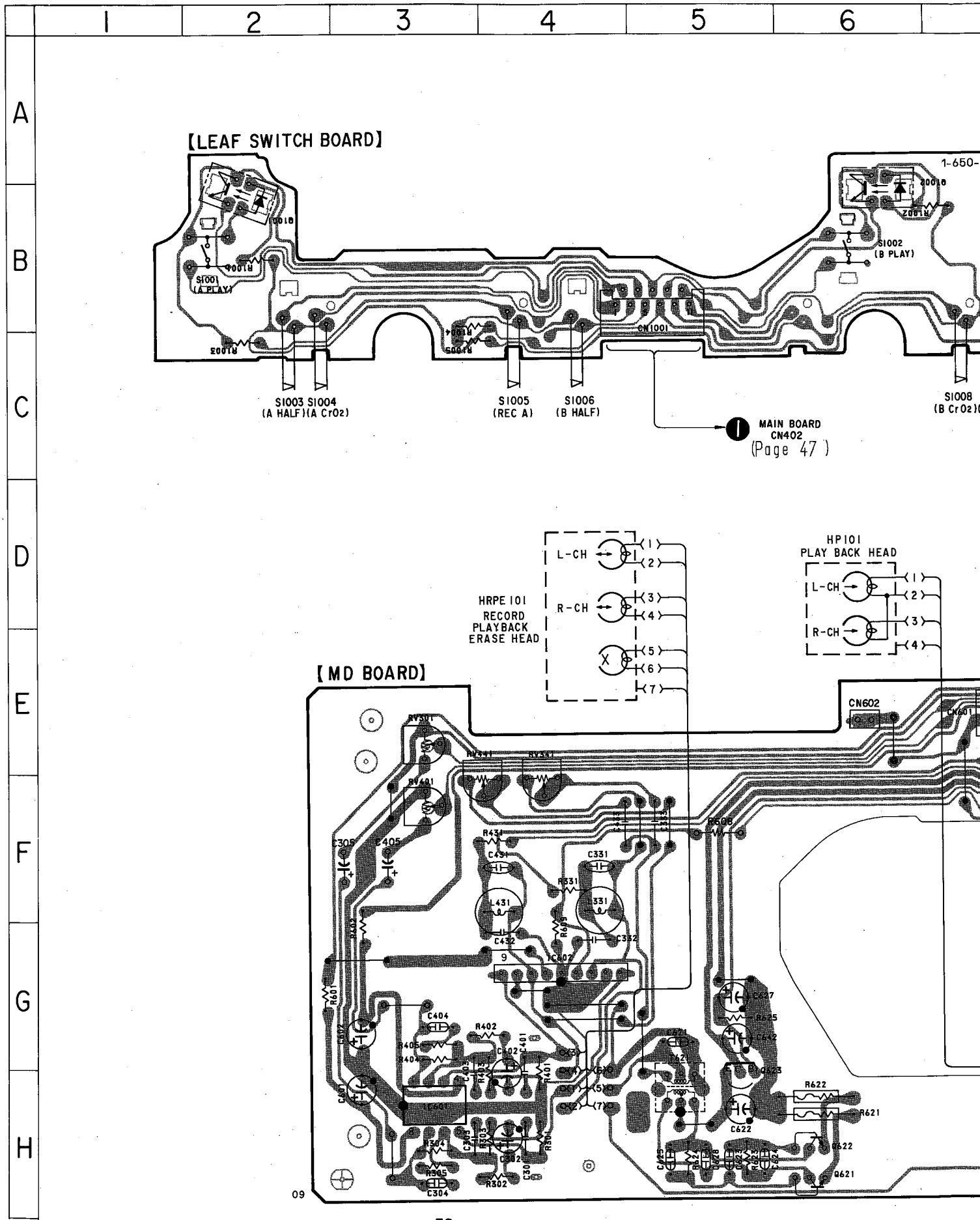
- All capacitors are in μF unless otherwise noted. pF: μμF
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- ⚠ : fusible resistor.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line.
- B− : B− Line.
- ▭ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark: PLAY
  ( ): REC
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Abbreviation
  EA :Saudi Arabia model.
  MY :Malaysia model.
- Signal path.
  ⟩⟩ : PB (DECK A)
  ⟩⟩ : PB (DECK B)
  ⟩⟩ : REC (DECK B)

6-15. PRINTED WIRING BOARD — DECK SECTION —

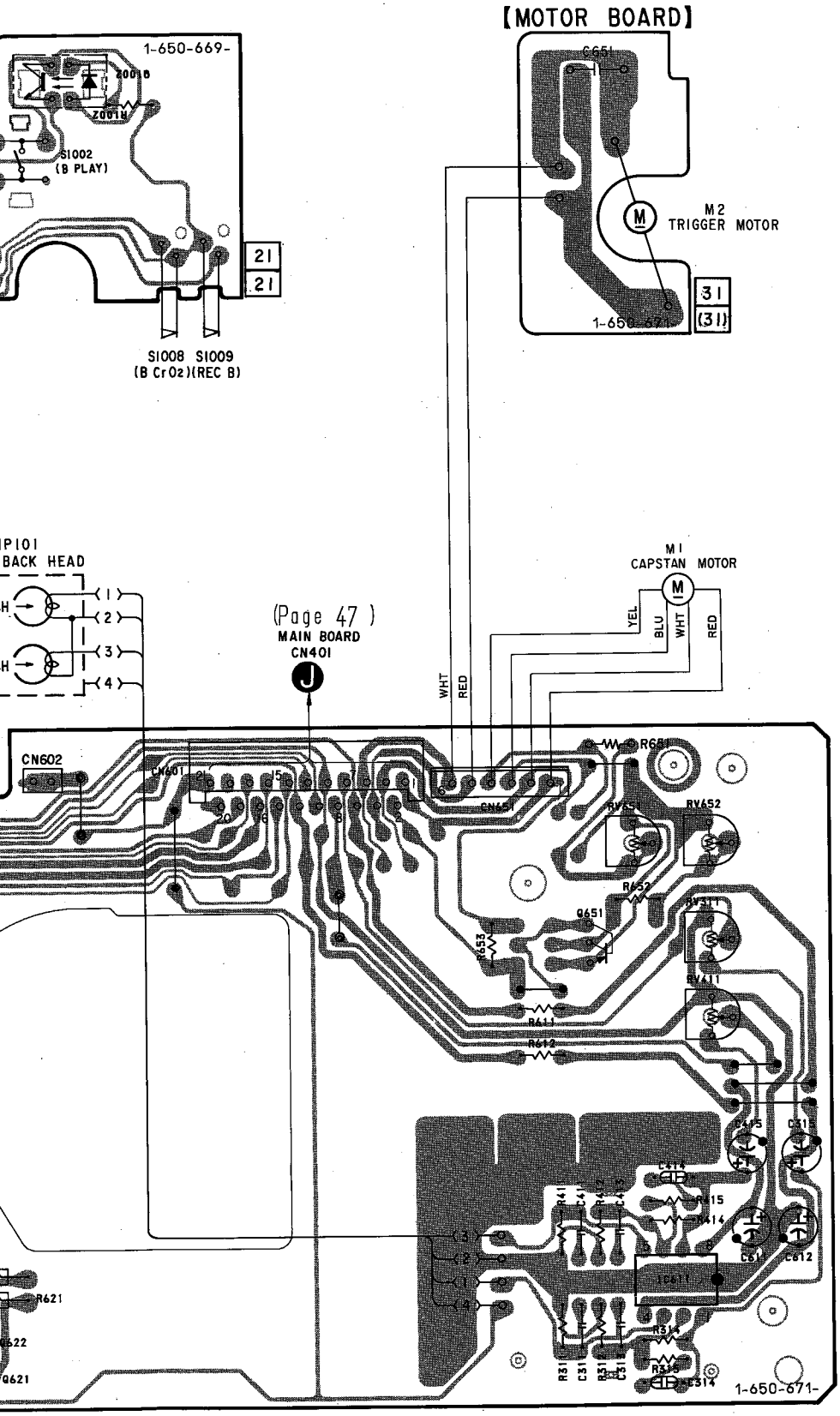
• See page 18 for Circuit Boards Location.



6	7	8	9	10

- **Semiconductor Location**

Ref. No.	Location
IC601	H-3
IC602	G-4
IC611	H-9
Q621	I-6
Q622	H-6
Q623	H-5
Q651	F-9
Q1001	B-2
Q1002	B-6



Note:

31
(31)

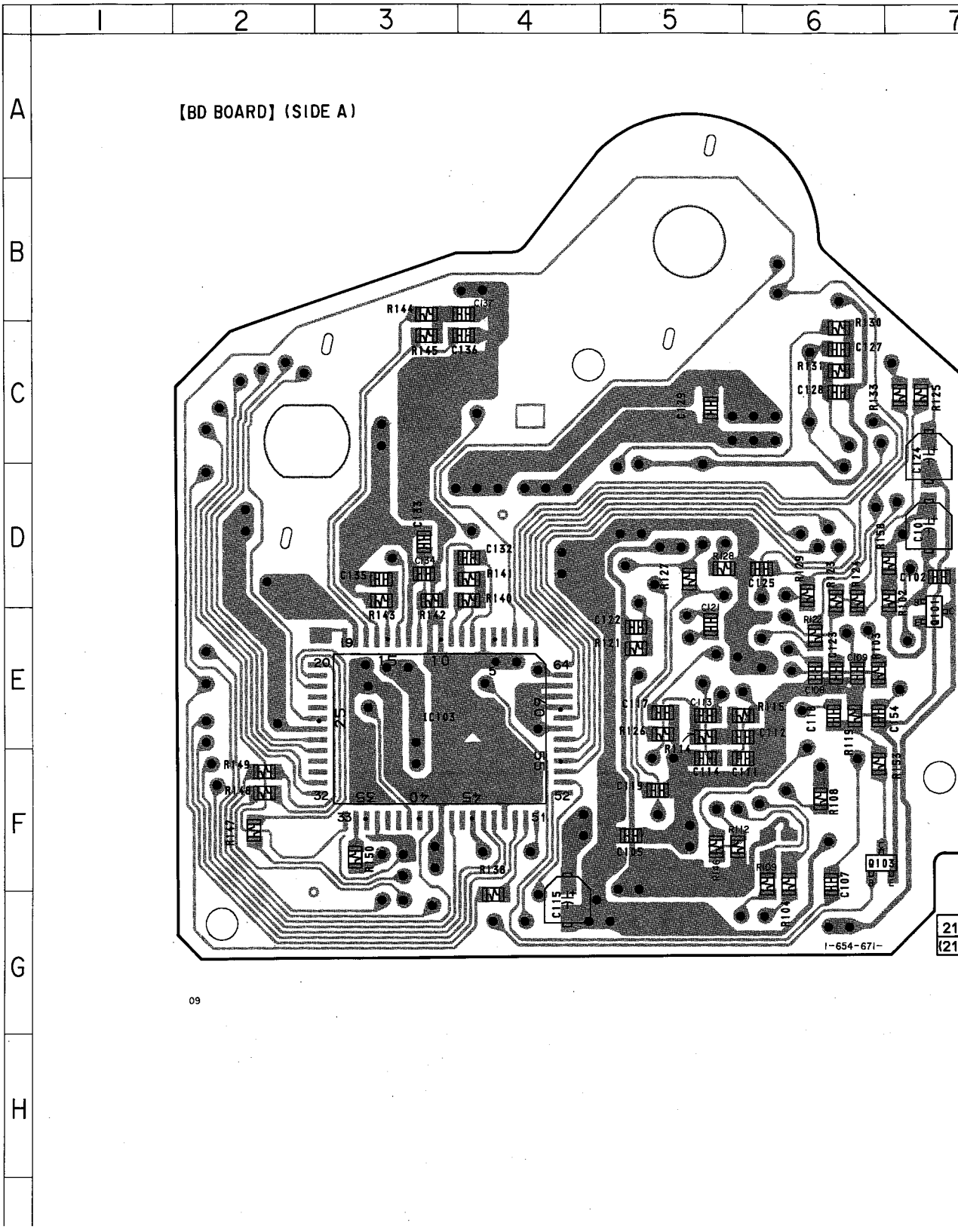
- ——: parts extracted from the component side.
- ▬▬: Pattern from the side which enable seeing.

6-16. PRINTED WIRING BOARD — CD SECTION —

• See page 18 for Circuit Boards Location.

• **Semiconductor Location**

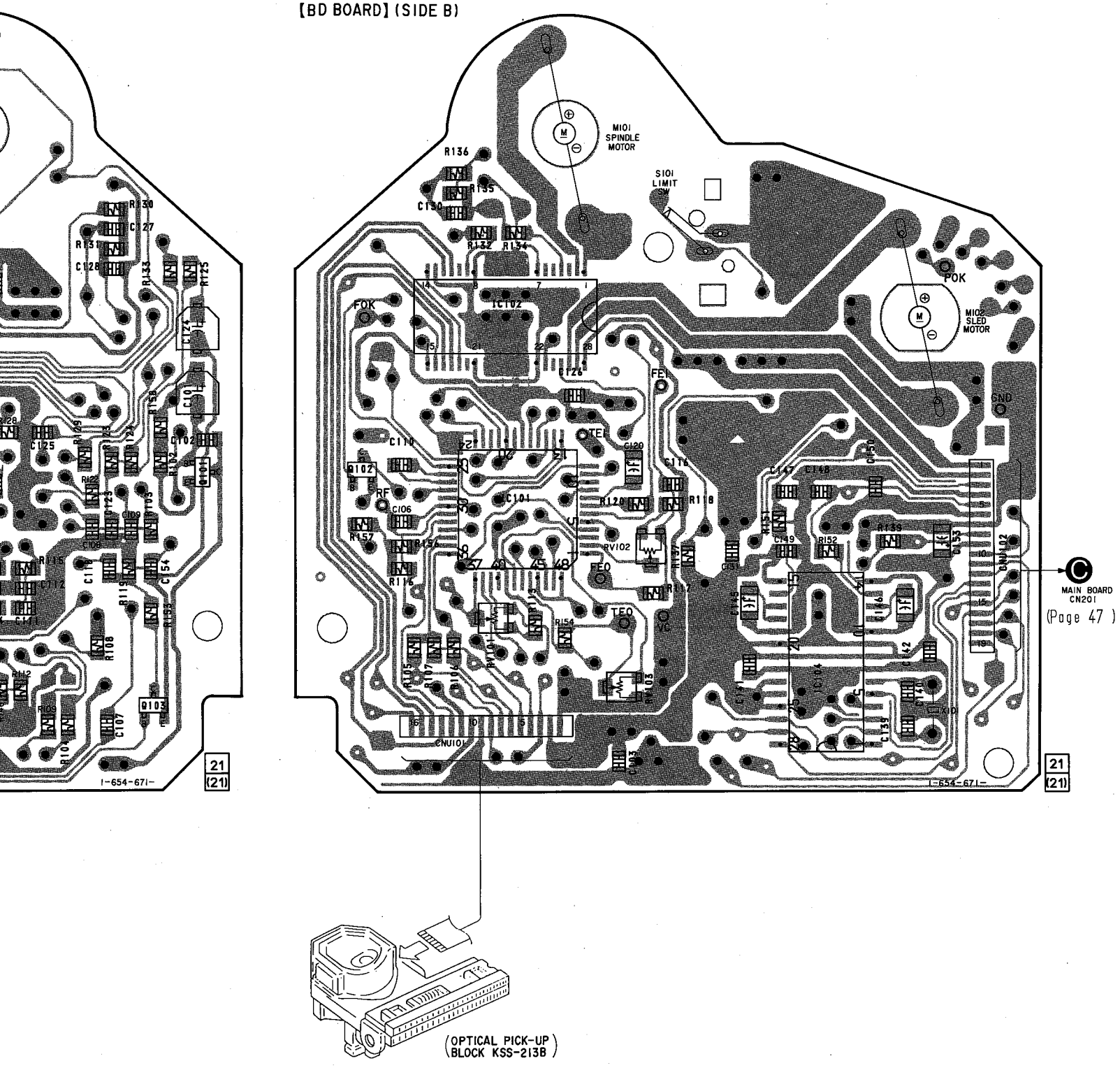
Ref. No.	Location
IC101	E-9
IC102	C-9
IC103	E-3
IC104	F-11
Q101	D-7
Q102	D-8
Q103	F-6



Note:

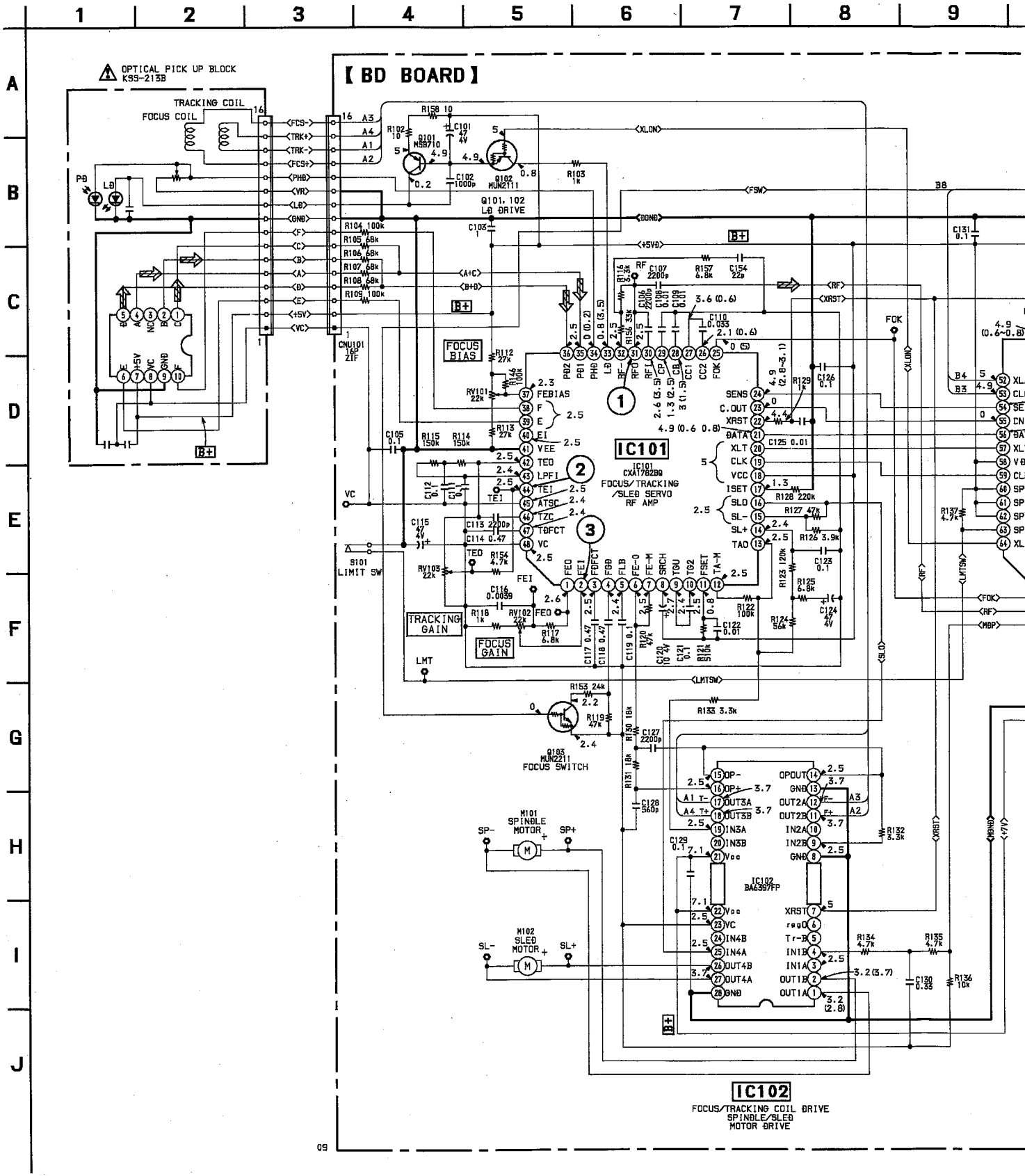
- ⟵ : parts extracted from the component side.
- ● : Through hole.
- ▒ : Pattern from the side which enable seeing. (The other layer's patterns are not indicated.)

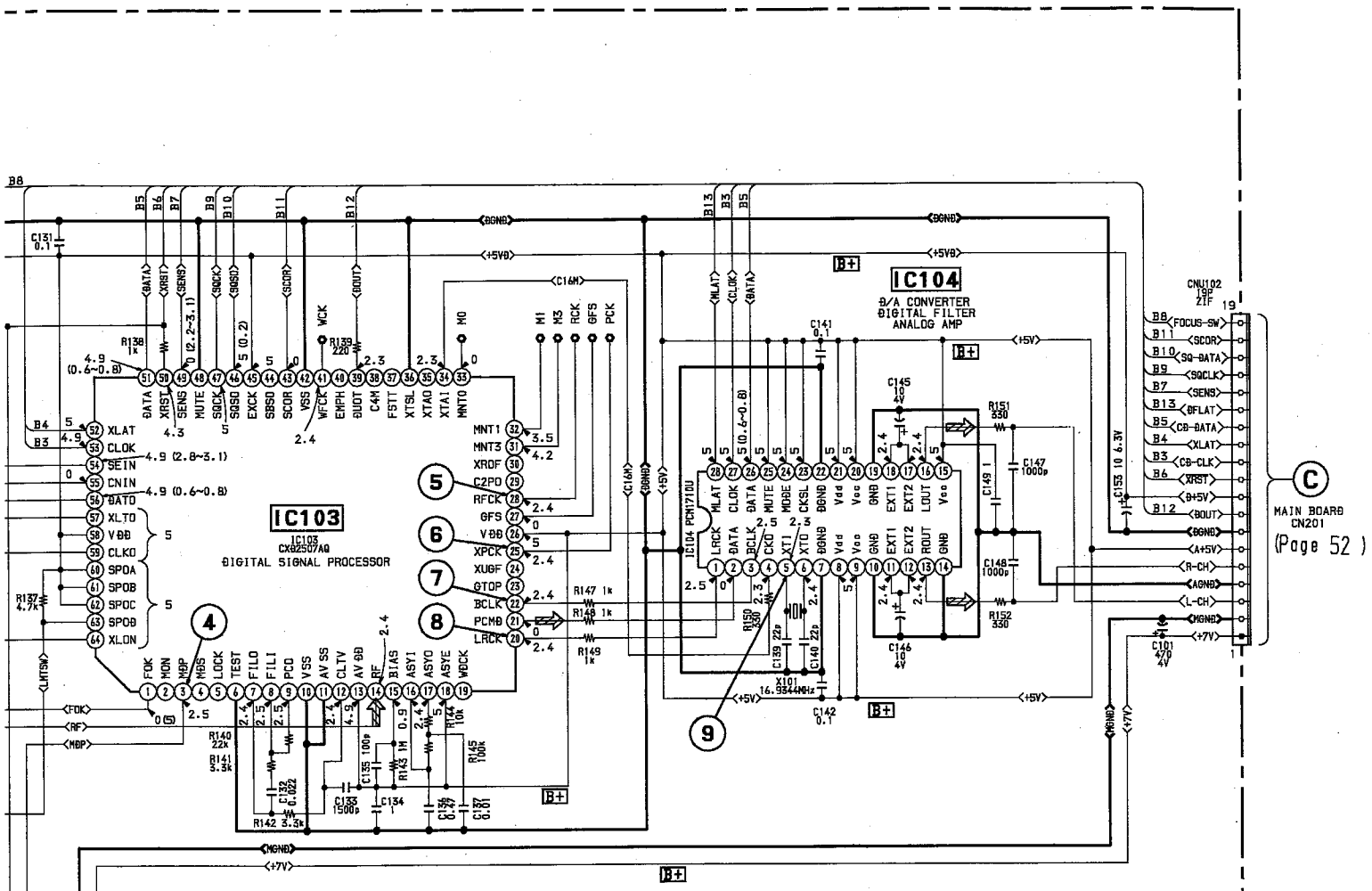
【BD BOARD】(SIDE B)



6-17. SCHEMATIC DIAGRAM — CD SECTION —

• See page 85 for IC Block Diagrams.





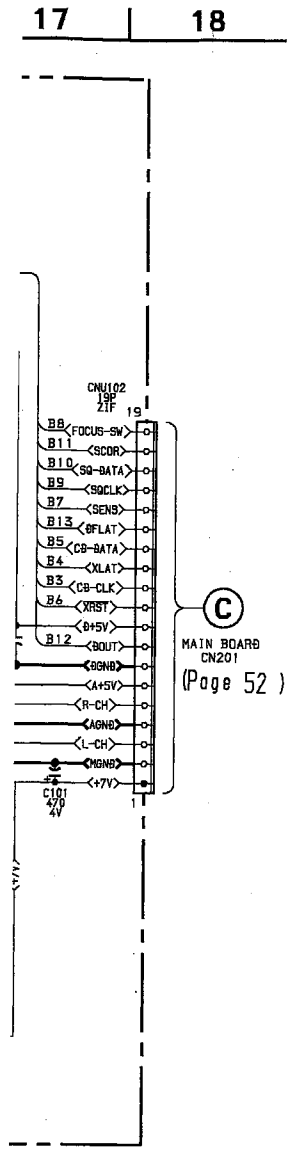
NOTE

- All capacitors are in μF unless otherwise noted. pF: μμF
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.

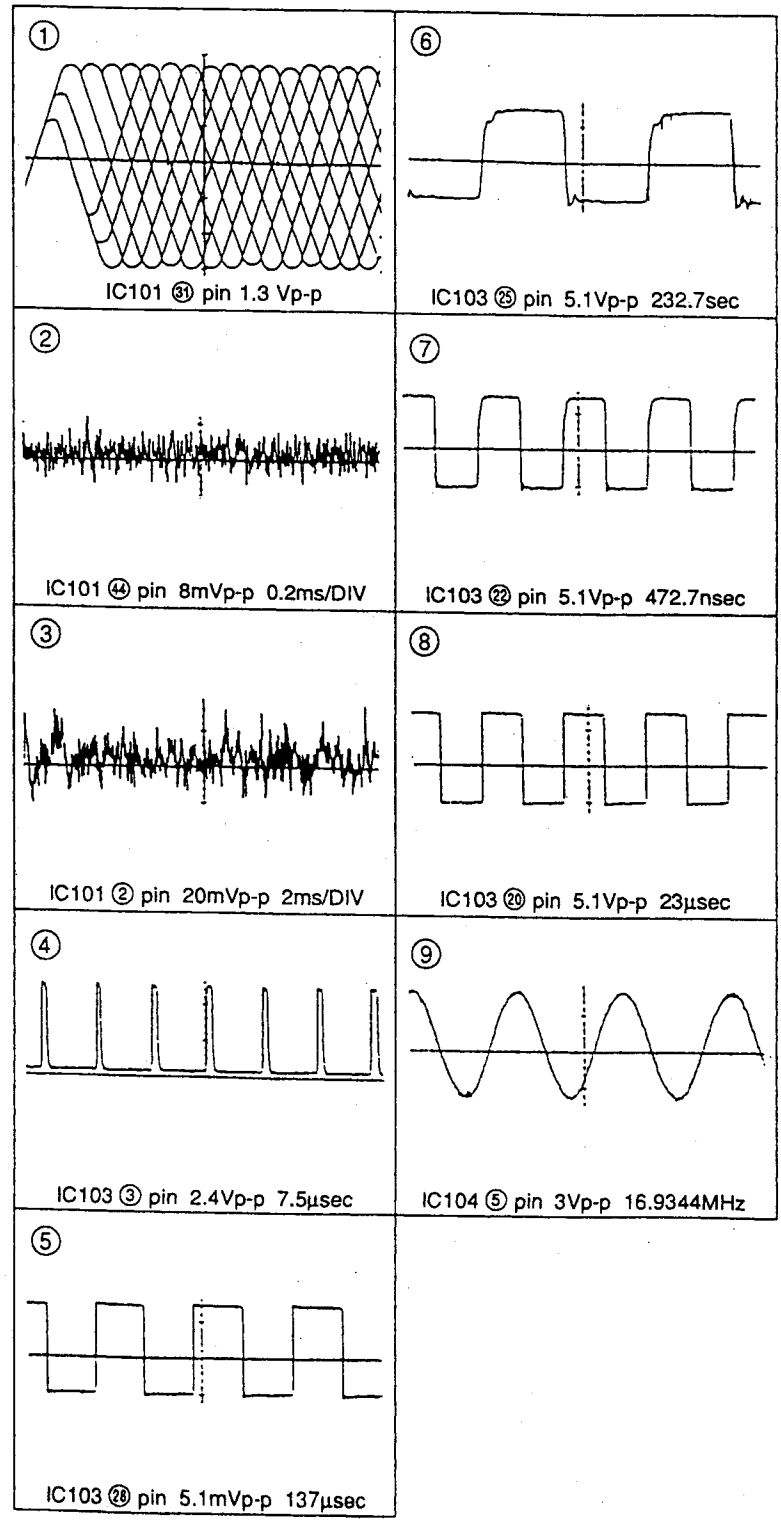
Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Signal path.
  ⇨ :CD

- B+ :B+ Line.
- ▭ :adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark: STOP
  ( ): PLAY
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.


17
18
CNU102
19P
ZIF
19
B8 FOCUS-SW
B11 SCOR
B10 SQ-DATA
B9 SQCLK
B7 SENS
B13 GFLAT
B5 CB-DATA
B4 XLAT
B3 CB-CLK
B6 XRST
B+5V
B12 BOUT
DGNDB
A+5V
R-CH
AGNDB
L-CH
MGNDB
+7V
C101
470
4V
C
MAIN BOARD
CN201
(Page 52)
:t to ground
lance 10MΩ).
rmal produc-
rmal produc-

• **Waveforms**

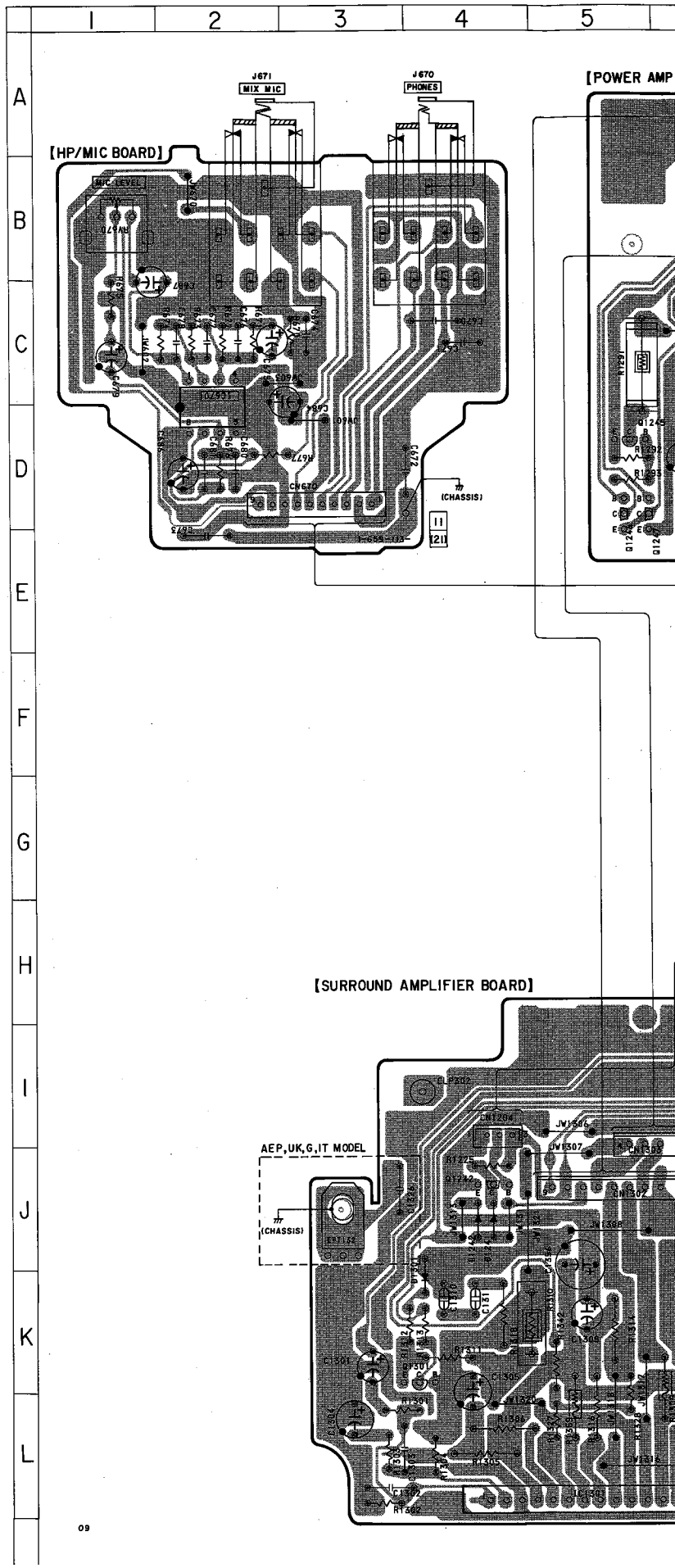

①
IC101 ㉛ pin 1.3 Vp-p
⑥
IC103 ㉕ pin 5.1Vp-p 232.7sec
②
IC101 ㊹ pin 8mVp-p 0.2ms/DIV
⑦
IC103 ㉒ pin 5.1Vp-p 472.7nsec
③
IC101 ② pin 20mVp-p 2ms/DIV
⑧
IC103 ⑳ pin 5.1Vp-p 23µsec
④
IC103 ③ pin 2.4Vp-p 7.5µsec
⑨
IC104 ⑤ pin 3Vp-p 16.9344MHz
⑤
IC103 ㉘ pin 5.1mVp-p 137µsec

6-18. PRINTED WIRING BOARD — POWER SECTION —

• See page 18 for Circuit Boards Location.

• **Semiconductor Location**

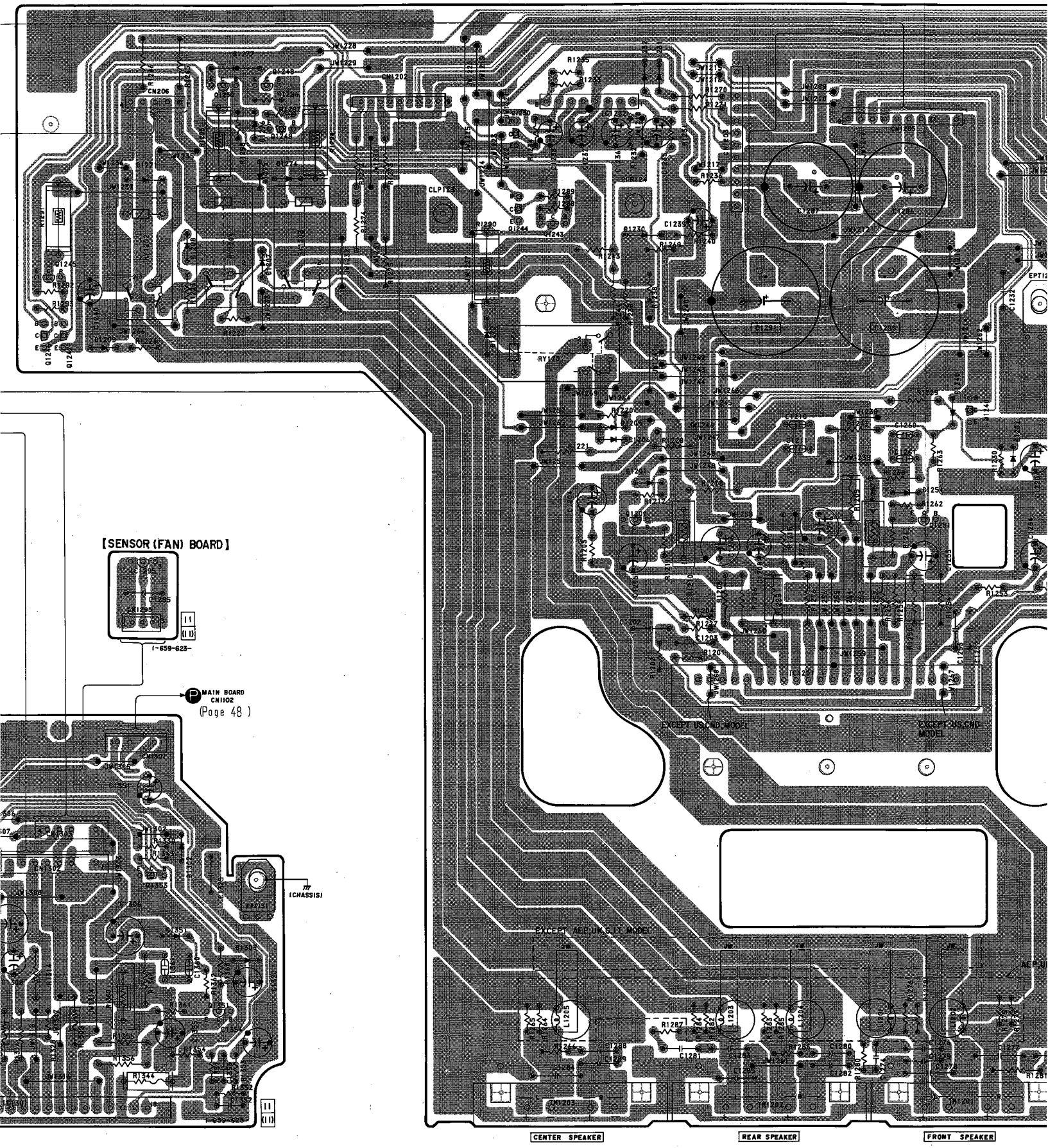
Ref. No.	Location
D1201	F-11
D1202	E-15
D1203	E-16
D1205	E-11
D1206	E-11
D1207	D-8
D1208	C-7
D1209	D-6
D1230	C-11
D1231	B-12
D1232	B-11
D1240	E-15
D1241	J-4
D1242	J-4
D1251	F-14
D1270	D-10
D1271	C-6
D1274	C-8
D1275	C-7
D1276	B-7
D1277	A-7
D1301	J-4
D1302	J-7
D1303	K-7
D1351	J-7
D1601	D-20
D1602	E-19
IC670	C-2
IC1201	H-13
IC1202	B-11
IC1295	G-6
IC1301	L-5
Q1201	F-11
Q1210	F-16
Q1230	B-10
Q1240	E-15
Q1242	J-4
Q1243	C-10
Q1244	C-10
Q1245	D-5
Q1246	D-5
Q1247	D-5
Q1248	B-8
Q1249	B-8
Q1250	B-7
Q1251	F-14
Q1301	K-4
Q1351	K-7
Q1353	J-6

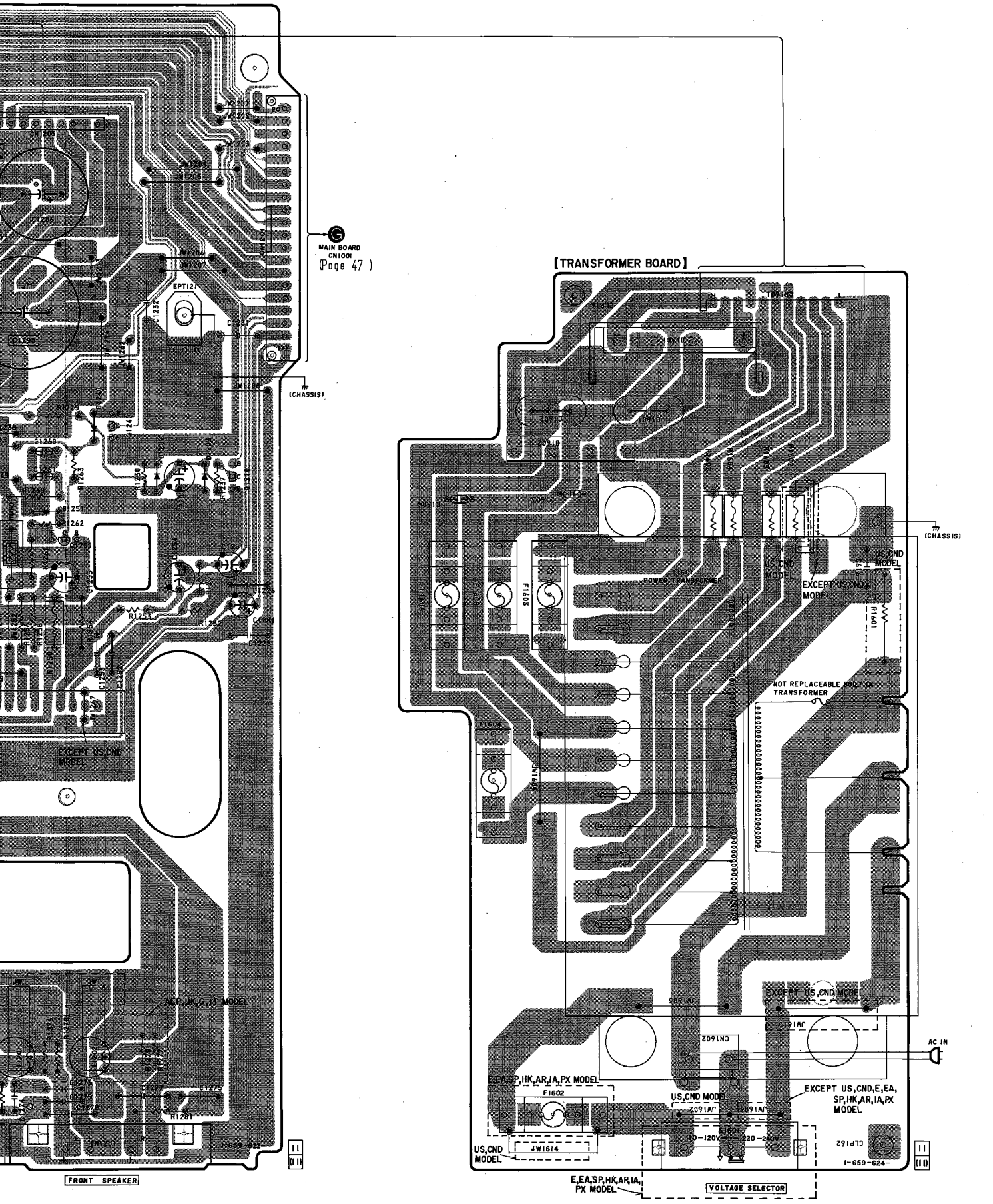


Note:

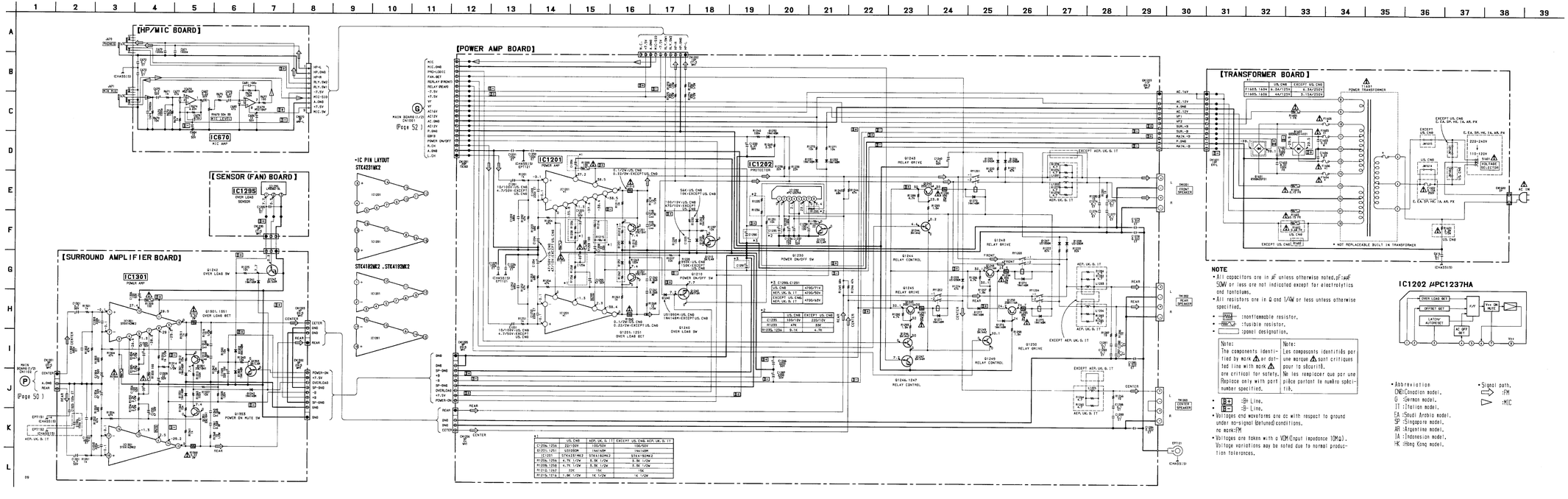
- ⟜—— : parts extracted from the component side.
- ▒▒▒ : Pattern from the side which enable seeing.
- Abbreviation
  - CND : Canadian model.
  - G : German model.
  - IT : Italian model.
  - EA : Saudi Arabia model.
  - SP : Singapore model.
  - AR : Argentine model.
  - HK : Hong Kong model.
  - TH : Thailand model.

【POWER AMP BOARD】



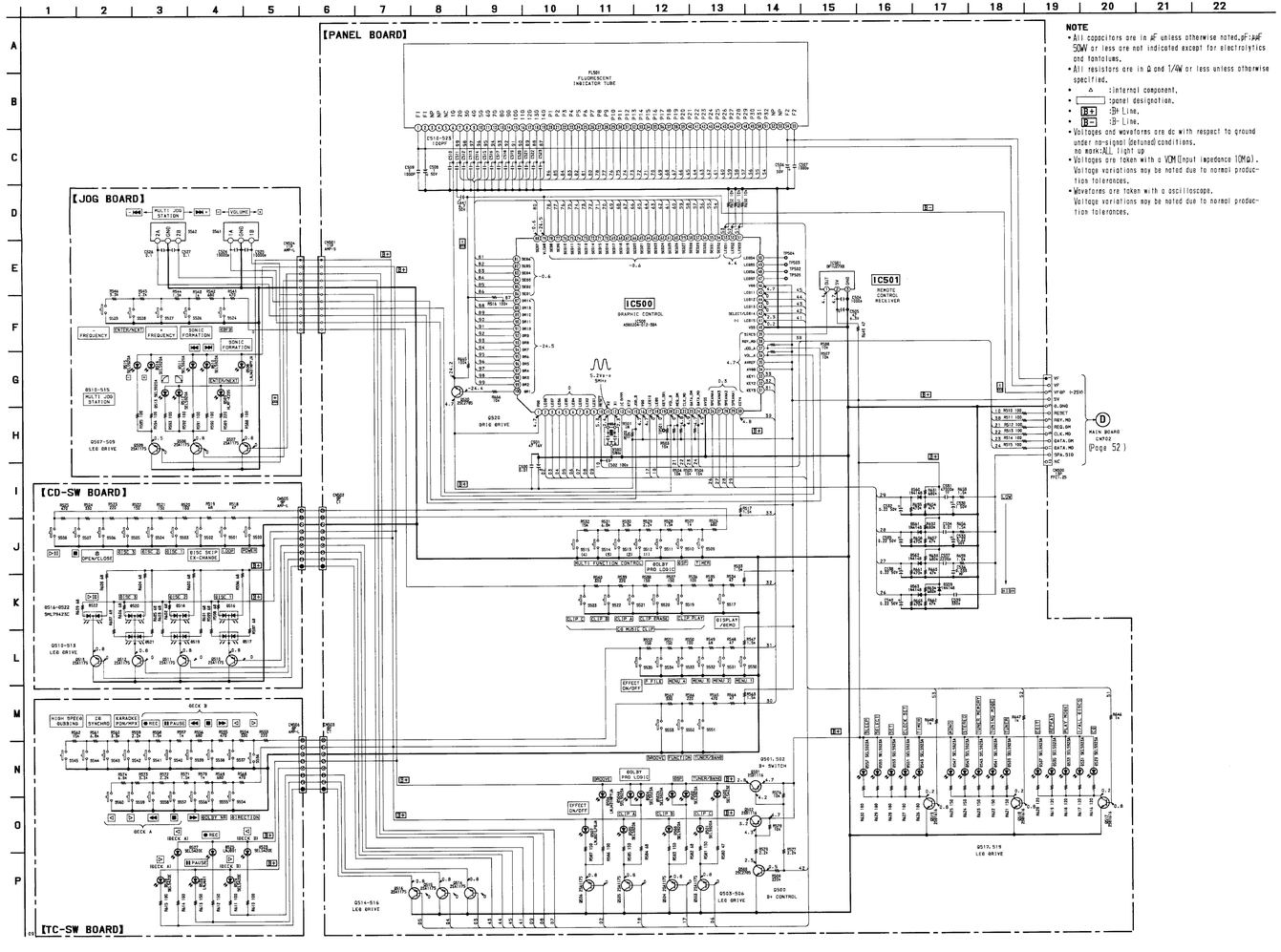

MAIN BOARD
CN1001
(Page 47)
(CHASSIS)
EXCEPT US,CND MODEL
AEP,UK,G,IT MODEL
FRONT SPEAKER
【TRANSFORMER BOARD】
(CHASSIS)
US,CND MODEL
POWER TRANSFORMER
EXCEPT US,CND MODEL
NOT REPLACEABLE PART IN TRANSFORMER
EXCEPT US,CND MODEL
AC IN
E,EA,SP,HK,AR,IA,PX MODEL
US,CND MODEL
EXCEPT US,CND,E,EA, SP,HK,AR,IA,PX MODEL
US,CND MODEL
E,EA,SP,HK,AR,IA, PX MODEL
VOLTAGE SELECTOR

6-19. SCHEMATIC DIAGRAM — POWER SECTION —



6-20. SCHEMATIC DIAGRAM — PANEL SECTION —

• See page 81 for IC Pin Function. (IC500)

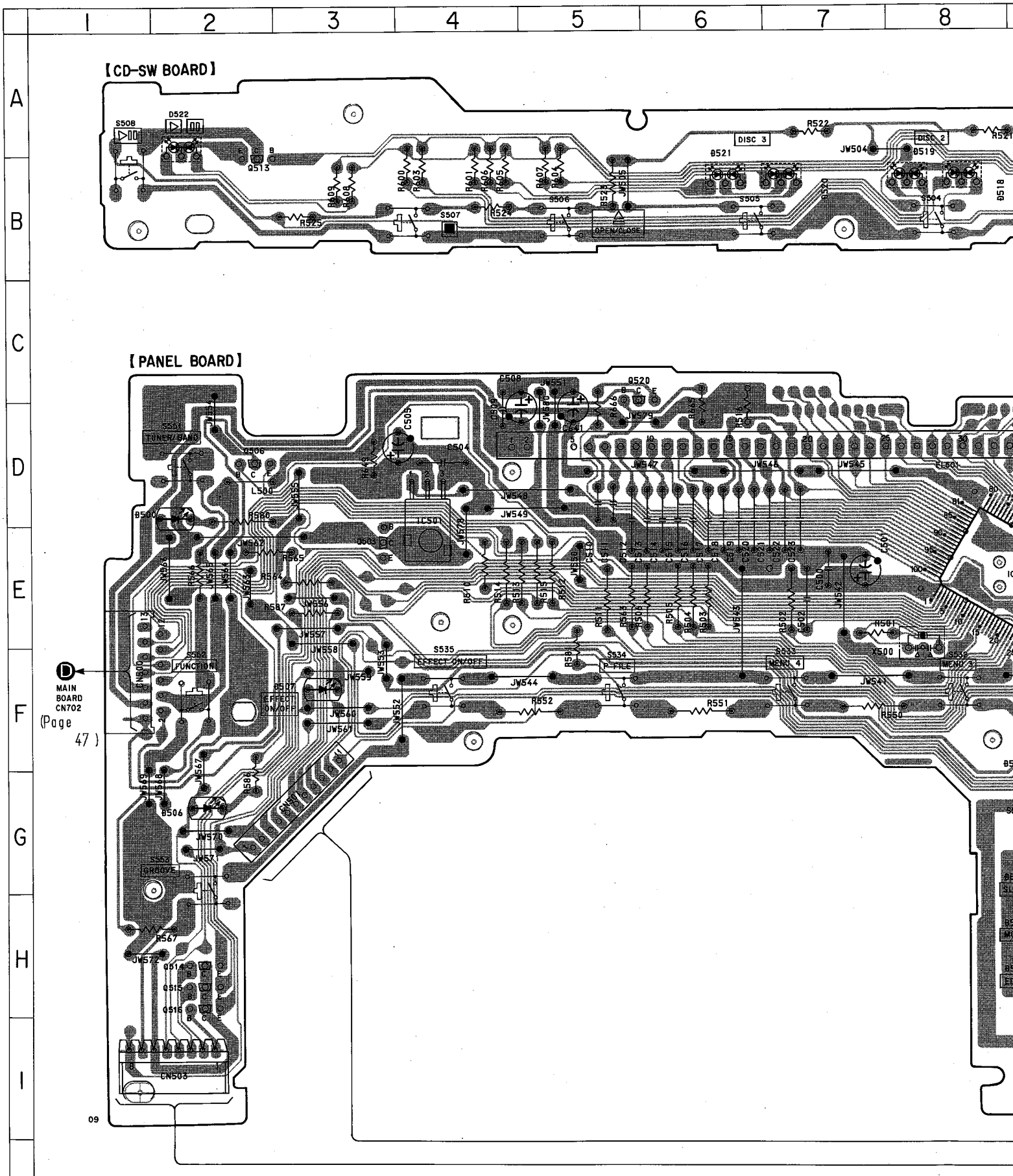


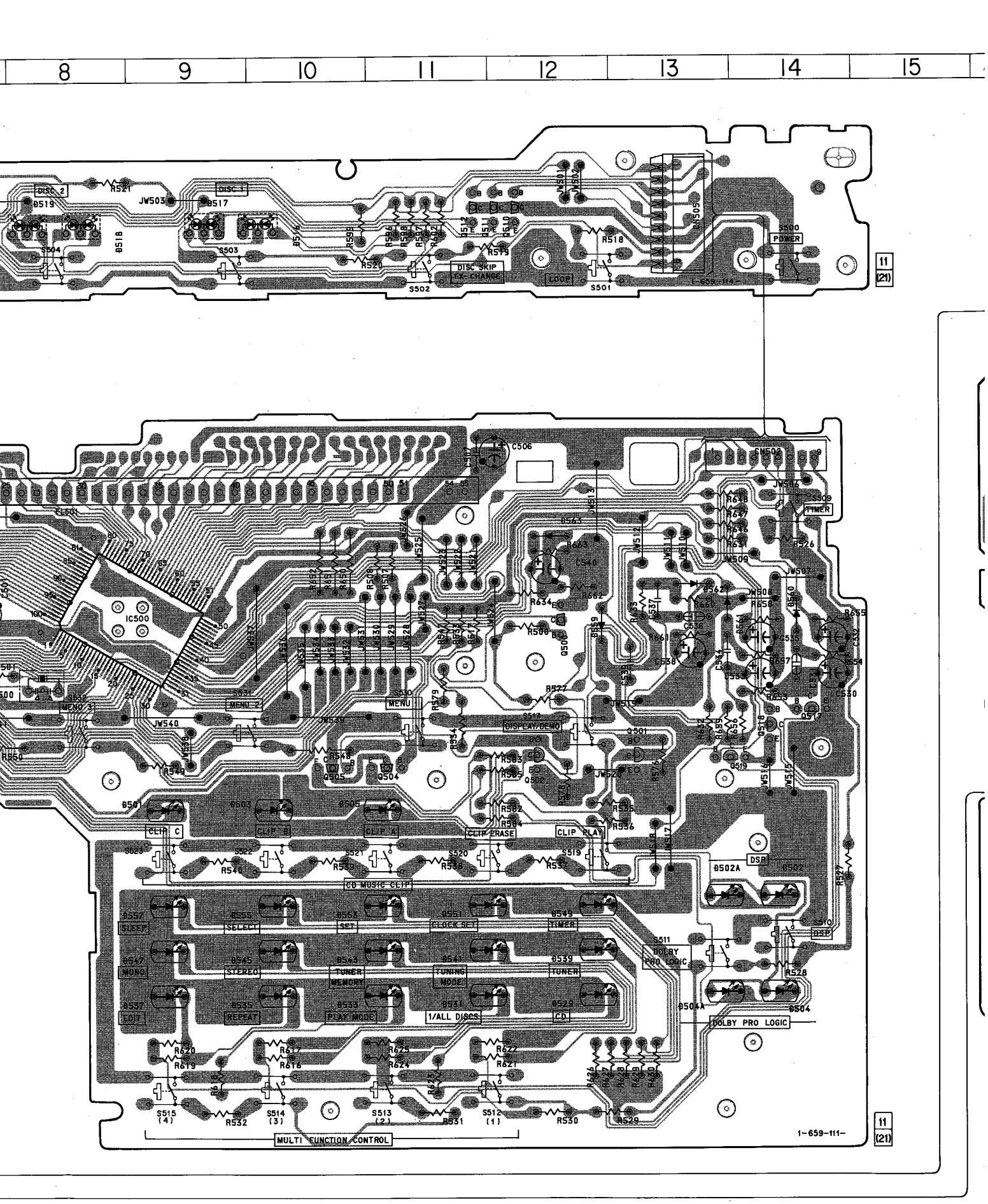
NOTE

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- □ : panel designation.
- B+ : B+ Line.
- B- : B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions. no mark: ALL light up
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.

6-21. PRINTED WIRING BOARD — PANEL SECTION —

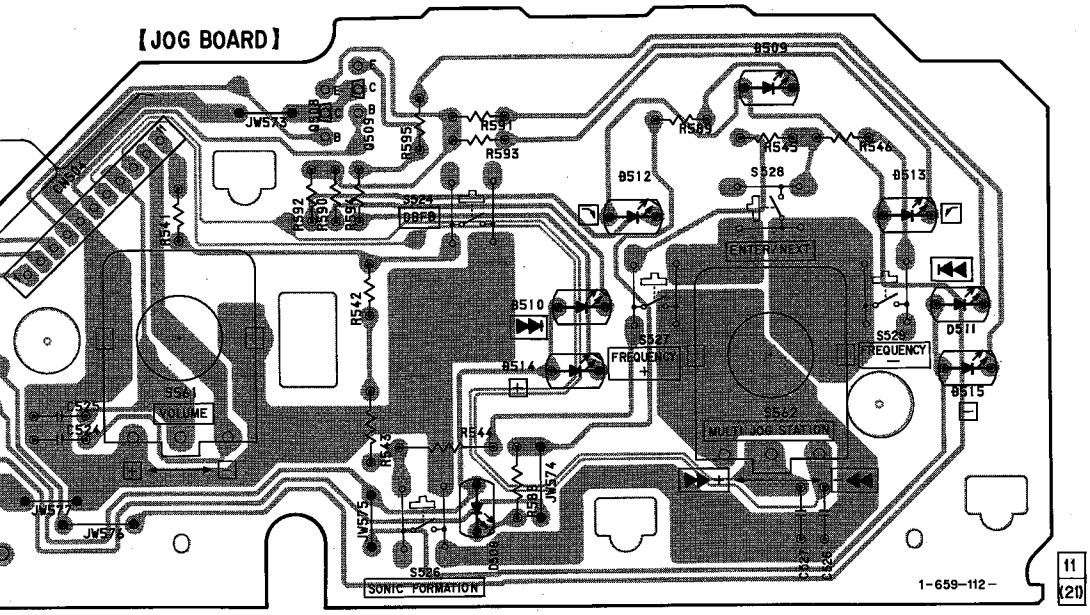
• See page 18 for Circuit Boards Location.



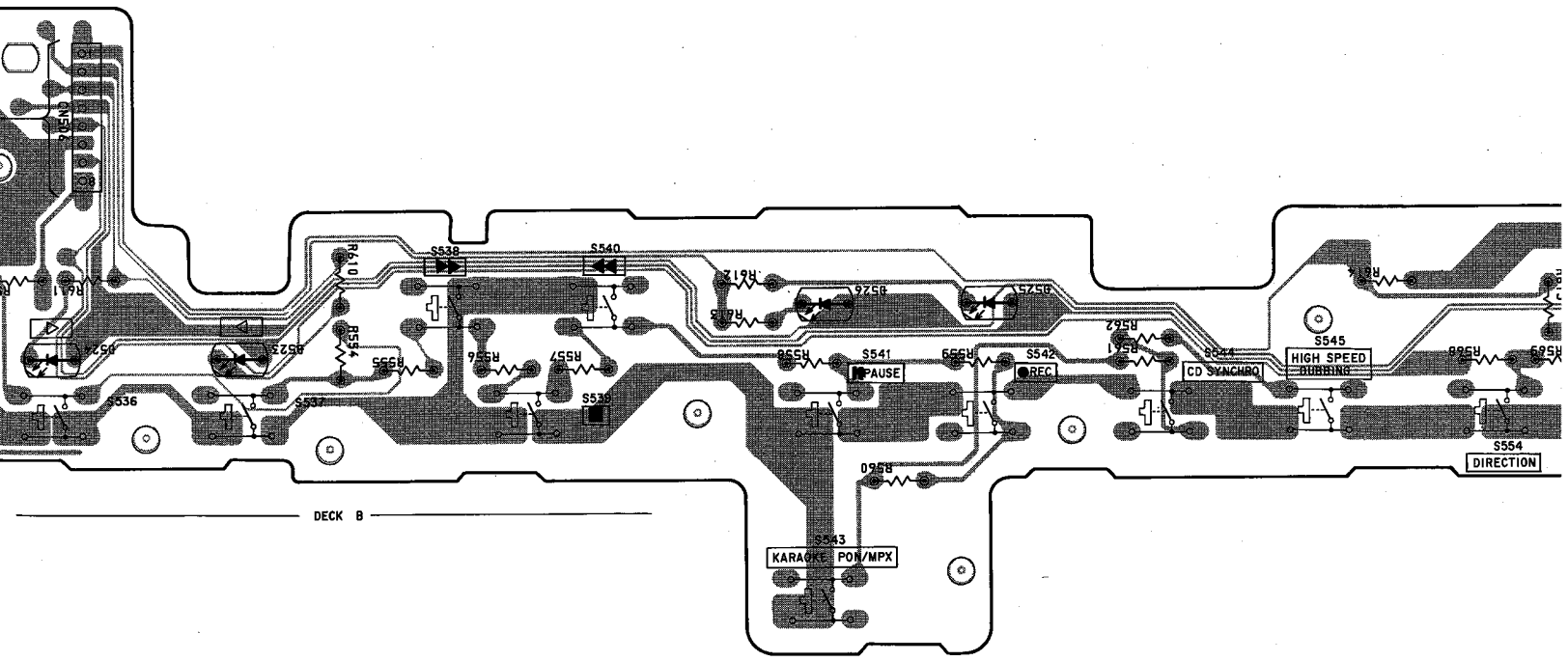

8
9
10
11
12
13
14
15
DISC 2
DISC 1
POWER
DISC SKIP
LOOP
MENU 3
MENU 2
MENU
DISPLAY/DEMO
CLIP C
CLIP B
CLIP A
CLIP ERASE
CLIP PLAY
CD MUSIC CLIP
SLEEP
SELECT
SET
CLOCK SET
TIMER
DSP
MONO
STEREO
TUNER MEMORY
TUNING MODE
TUNER
DOLBY PRO LOGIC
EDIT
REPEAT
PLAY MODE
1/ALL DISCS
CD
MULTI FUNCTION CONTROL
1-659-111-
11
(21)

16	17	18	19	20	21	22	23	24

【JOG BOARD】



【SW BOARD】



23	24	25	26	27	28	29	30

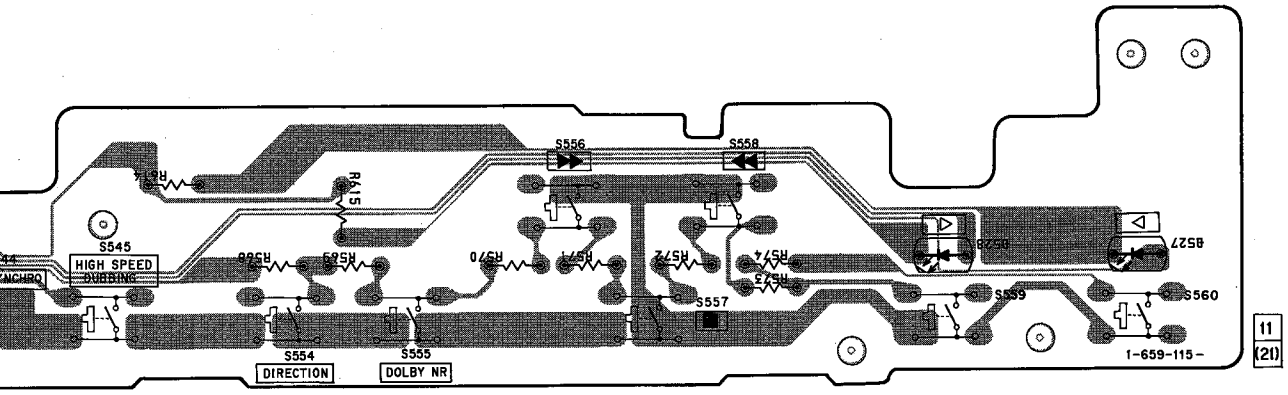
• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D500	D-11	D543	H-10
D501	F-9	D545	H-9
D503	F-9	D547	H-9
D505	F-10	D549	G-12
D506	G-2	D551	G-11
D507	F-3	D553	G-10
D508	D-18	D555	G-9
D509	B-20	D557	G-9
D510	C-19	D559	E-12
D511	C-21	D560	E-14
D512	C-19	D561	E-14
D513	C-21	D562	E-13
D514	D-19	D563	D-12
D515	D-21		
D516	B-10	IC500	E-8
D517	B-9	IC501	D-4
D518	B-8		
D519	B-8	Q500	E-12
D502	G-14	Q501	F-13
D502A	G-13	Q502	F-12
D504	H-14	Q503	E-3
D504A	H-13	Q504	F-11
D520	B-7	Q505	F-10
D521	B-6	Q506	D-2
D522	A-2	Q507	D-16
D523	H-17	Q508	B-17
D524	H-16	Q509	B-18
D525	G-21	Q510	B-12
D526	G-20	Q511	B-11
D527	H-29	Q512	B-11
D528	H-28	Q513	B-2
D529	H-12	Q514	H-2
D531	H-11	Q515	H-2
D533	H-10	Q516	H-2
D535	H-9	Q517	F-14
D537	H-9	Q518	F-14
D539	H-12	Q519	F-14
D541	H-11	Q520	C-5

Note:

• ⟵ : parts extracted from the component side.

• ▒▒ : Pattern from the side which enable seeing.



DECK A

6-22. IC PIN FUNCTIONS

• IC500 GRAPHIC CONTROL (ASD0204)

Pin No.	Pin Name	I/O	Function
1	V_{DD}	–	+5V
2 to 9	$\overline{LED8\text{-}1}$	O	LED drive signal output.
10	$\overline{RESET}$	I	Reset signal input.
11	X2	O	X' tal (5 MHz).
12	X1	I	
13	IC (Vpp)	–	Ground
14	XT2	I	Not used. (Open)
15	JOG B	I	AMS encoder signal input.
16	V_{DD}	–	+5V
17, 18	$\overline{LED10, 9}$	O	LED drive signal output.
19	KEY SEL	O	Key select control. (Not used) (Open)
20	VOL B	I	Volume encoder signal input.
21	REQ. GM	O	Request signal from/to master control.
22	CLK MG	I	Serial clock input from master control.
23	DATA GM	O	Serial data output to master control.
24	DATA MG	I	Serial data input from master control.
25	AV_{SS}	–	Ground
26 to 29	SPEANA 4–1	I	Spectram analizer signal input.
30 to 33	KEY 4–1	I	Key matrix input.
34	AV_{DD}	–	+5V
35	AV_{REF}	–	
36	VOL A	I	Volume encoder signal input.
37	JOG A	I	AMS encoder signal input.
38	RDY MG	I	Ready signal from master control.
39	SIRCS	I	SIRCS signal input.
40	V_{SS}	–	Ground
41	LED 15	O	LED drive signal output.
42	LED SELECT	O	LED select signal output.
43 to 45	$\overline{LED13\text{–}11}$	O	LED drive signal output.
46	V_{DD}	–	+5V
47 to 50	LEDS7–4	O	Not used.
51 to 53	LEDS3–1	O	LED drive signal output.
54 to 78	SEG32–8	O	Fluorescent indicator tube segment signal output.
79	V, LOAD	–	–25V for Fluorescent indicator tube
80 to 86	SEG7–1	O	Fluorescent indicator tube segment signal output.
87 to 100	GR14–1	O	Fluorescent indicator tube grid signal output.

• **IC701 MASTER CONTROL (TMP87CP64YF)**

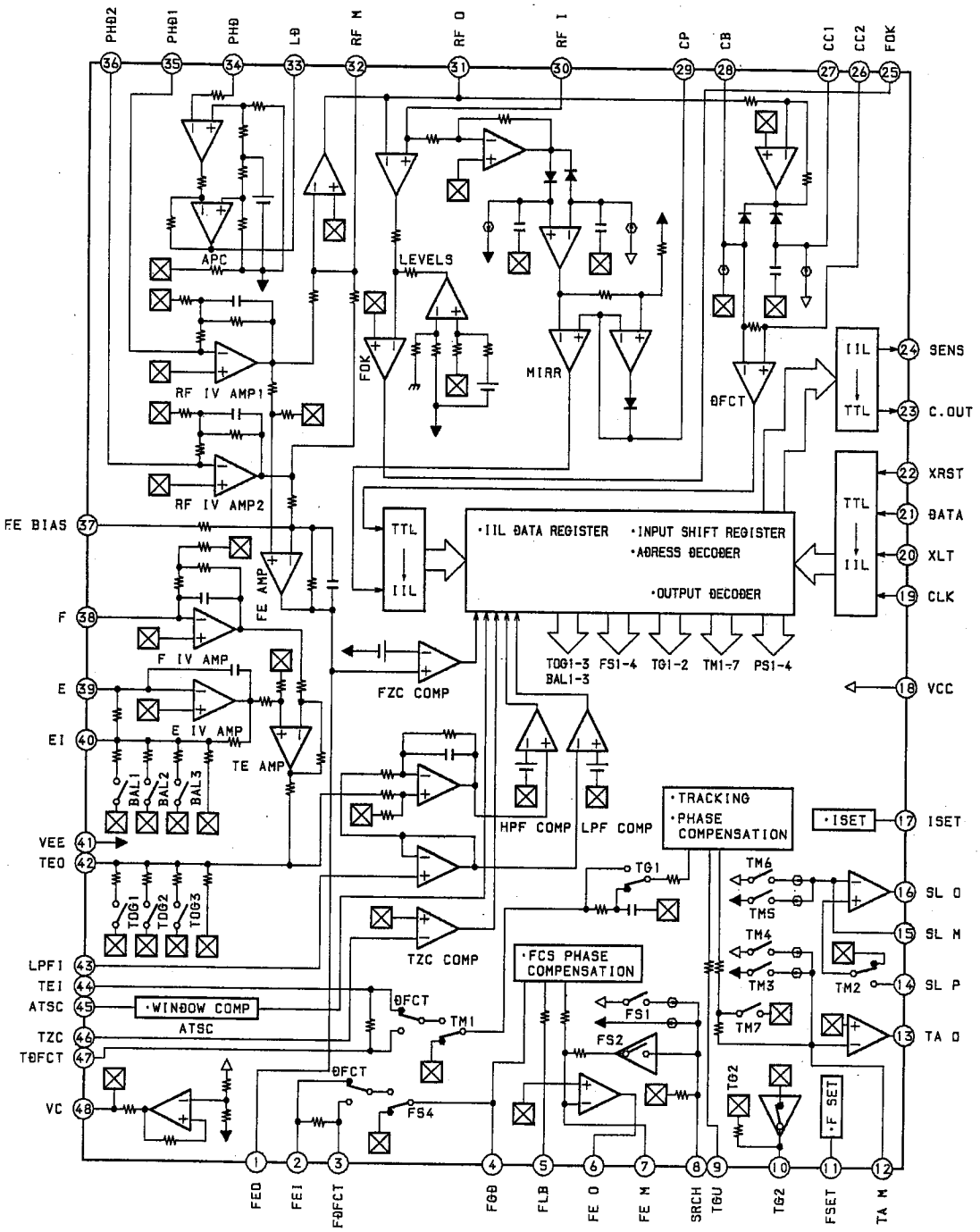
Pin No.	Pin Name	I/O	Function
1	Vss	–	Ground
2	XOUT	O	X'tal (10 MHz).
3	XIN	I	
4	$\overline{\text{RESET}}$	I	Reset signal input.
5	XOUT	O	X'tal for clock (32.768 MHz).
6	XIN	I	
7	GND (test)	–	Ground
8	$\overline{\text{AC CUT}}$	I	Back up signal input.
9	SUPER WOOFER ON	O	Not used. (Pull up)
10	ST-MUTE ON	O	Mute signal output for tuner.
11	$\overline{\text{180-A-PLAY}}$	I	Tape detection signal input. (Not used) (Connected to ground)
12	$\overline{\text{180-B-PLAY}}$	I	
13	$\overline{\text{180-B-REC}}$	I	
14	V DET	I	Not used. (Open)
15	UP-SW	I	Disc table up detect. (Not used) (Pull up)
16	$\overline{\text{TRAY-CLOSE (ICD)}}$	I	Loading in detection signal input. (Not used) (Connected to ground)
17	ENCODER-0	I	Disctray address detect encoder input.
18	ENCODER-1	I	
19	ENCODER-2	I	
20	$\overline{\text{OUT SW OPEN}}$	I	Loading out detection signal input.
21	LOAD IN	O	Loading motor control signal output.
22	LOAD OUT	O	
23	TBL-L	O	Table motor control signal output.
24	TBL-R	O	
25	SCOR	I	Sub-code sync signal input.
26	TBL-SENS	I	CD Table sensor signal input.
27	RDS INT	I	RDS data start input.
28	RDS DATA	I	RDS data start output.
29	DF LAT	O	Latch signal for digital filter.
30	SENS	I	Table sence signal input.
31	$\overline{\text{XRST}}$	O	Reset signal output for CD.
32	MG-RDY	O	Ready signal to graphic control.
33	$\overline{\text{ADJ}}$	I	Test mode input.
34	$\overline{\text{GM-REQ}}$	I	Request signal from graphic control.
35	MG-CLK	O	Clock signal to graphic control.
36	GM-DATA	I	Data input from graphic control.
37	MG-DATA	O	Data output to graphic control.
38	CD-CLK	O	Clock output. Serial bus line.
39	$\overline{\text{ADJ-2}}$	I	Test mode input.
40	CD-DATA	O	Data output. Serial bus line.

Pin No.	Pin Name	I/O	Function
41	AUB IN	I	Audio bus in/output. (Not used) (Open)
42	AUB OUT	O	
43	FOCUS SW	O	Focus switching signal output.
44	SQ-CLK	O	Subcode Q data read clock output.
45	SQ-DATA	I	Subcode Q data input.
46	X-LAT	O	Latch signal output for digital signal processor.
47	TEST	I	Test land.
48	VAREF	I	Analog reference voltage input.
49	VAss	–	Ground
50	Vss	–	
51	V_{DD}	–	+5V
52	SPEC	I	Destination detection setting input.
53	DESTINATION	I	
54	DISC SENS	I	Slit sensor of disc table input.
55	TC RELAY	O	REC/PB select signal output.
56	A-SHUT	I	Control signal input from deck.
57	B-SHUT	I	
58	B-HALF	I	
59	A-HALF	I	
60	220-A-PLAY	I	
61	220-B-PLAY	I	
62	62427 LAT	O	PLL latch output.
63	K-CON-LAT	O	Not used. (Open)
64	VOL LAT (AV)	O	Latch signal for electrical volume.
65	REAR SP RELAY B	O	Rear speaker relay B Control output.
66	FRONT SP RELAY C	O	Front speaker relay C Control output.
67	$\overline{\text{POWER ON}}$	O	Power on signal output.
68	CD POWER	O	CD power control signal output.
69	$\overline{\text{PROLOG LAT}}$	O	Latch signal output for dolby pro logic.
70	$\overline{\text{MUTE}}$	O	Mute signal for AMP.
71	COM CLK	O	PLL clock output.
72	COM DIN	I	PLL data input.
73	COM DATA	O	PLL data output.
74	$\overline{\text{K CON ON}}$	O	Not used. (Open)
75	LIDDED LED	O	Disc No. LED drive signal output. (Not used) (Open)
76	MD/VIDEO	O	VIDEO/MD IN mute control signal output.
77	DBFB-HIGH	O	DBFB switching signal output.
78	PWM DUTY	I	Not used.
79	PRO LOGIC	O	Dolby pro logic control output.
80	$\overline{\text{TC A}}$	O	Deck A, B select output.

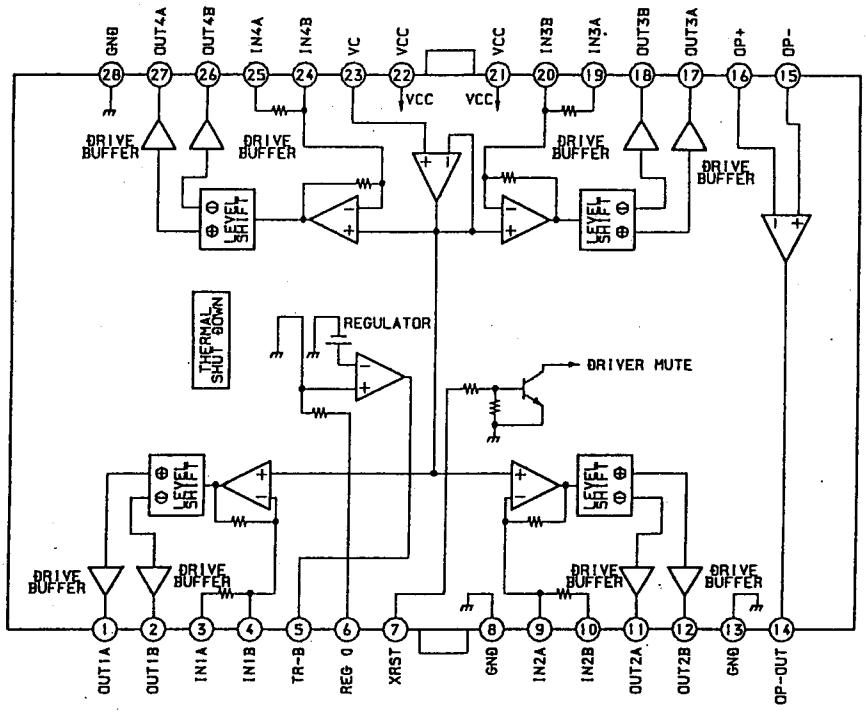
Pin No.		I/O	Function
81	$\overline{\text{NORM}}$	O	NORMAL/HIGH control signal output.
82	$\overline{\text{BIAS OFF}}$	O	Bias oscillation output.
83	$\overline{\text{REC MUTE}}$	O	Mute output.
84	$\overline{\text{NR OFF}}$	O	Dolby ON/OFF signal output.
85	PB	O	REC/PB control signal output.
86	$\overline{\text{PASS. AMP/DOLBY}}$	O	Dolby switching signal output.
87	$\overline{\text{LINE MUTE ON}}$	O	Mute signal output for deck.
88	$\overline{\text{CAP. M-HIGH}}$	O	Capstan motor control signal output.
89	A-TRG	O	Trigger motor control signal output.
90	B-TRG	O	
91	$\overline{\text{TRG LOW}}$	O	Trigger motor high/low contorol signal output.
92	$\overline{\text{CAP M ON}}$	O	Capstan motor ON/OFF control signal output.
93	$\overline{\text{STEREO}}$	I	Stereo dection signal from tuner.
94	$\overline{\text{TUNED}}$	I	Tuned detection signal from tuner.
95	ST-CE	O	Latch signal output for tuner.
96	$\overline{\text{DELAY SEL MIC}}$	O	Not used. (Open)
97	$\overline{\text{DELAY ON}}$	O	Not used. (Connected to ground)
98	DELAY LEVEL A	O	
99	DELAY LEVEL B	O	
100	V_{DD}	–	+5V

6-23. IC BLOCK DIAGRAMS — CD SECTION —

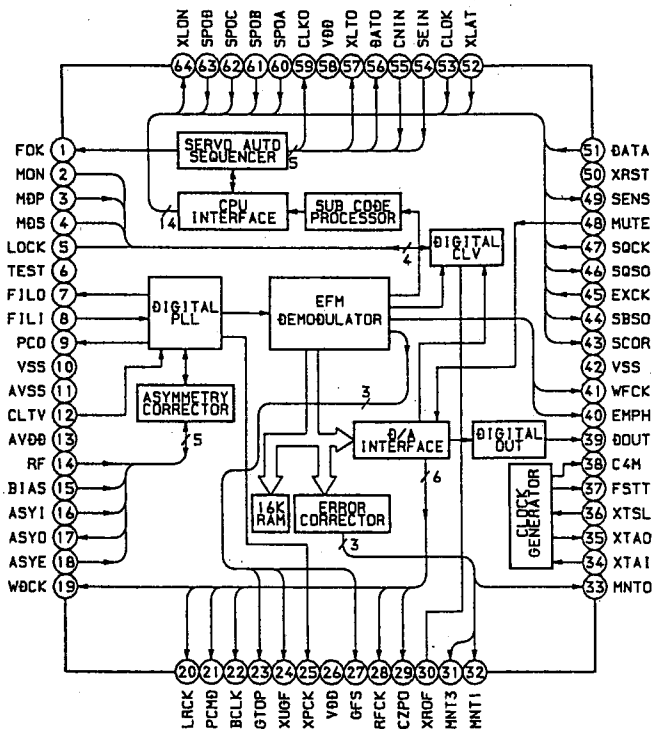
IC101 CXA1782BQ



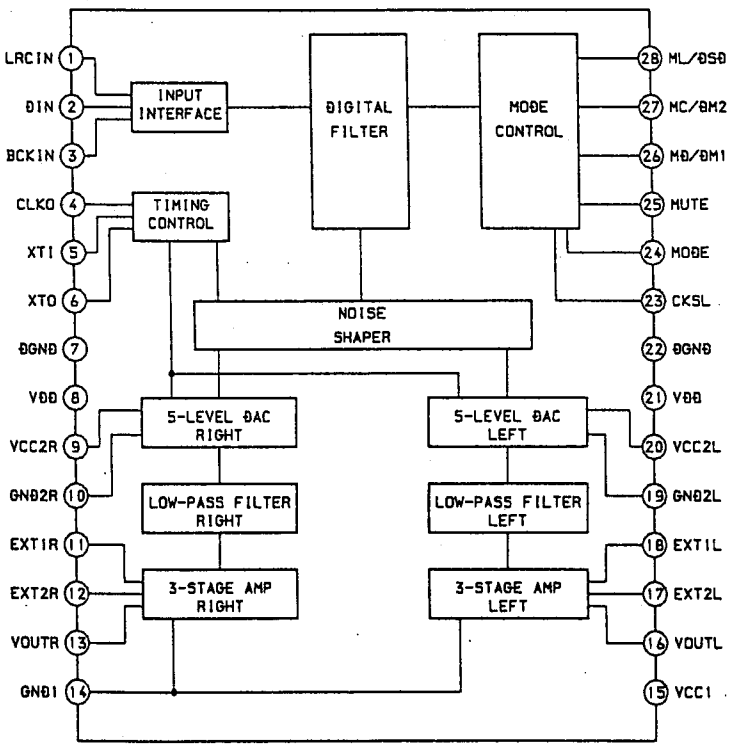
IC102 BA6397FP



IC103 CXD2507



IC104 PCM1710U



SECTION 7
EXPLODED VIEWS

NOTE:

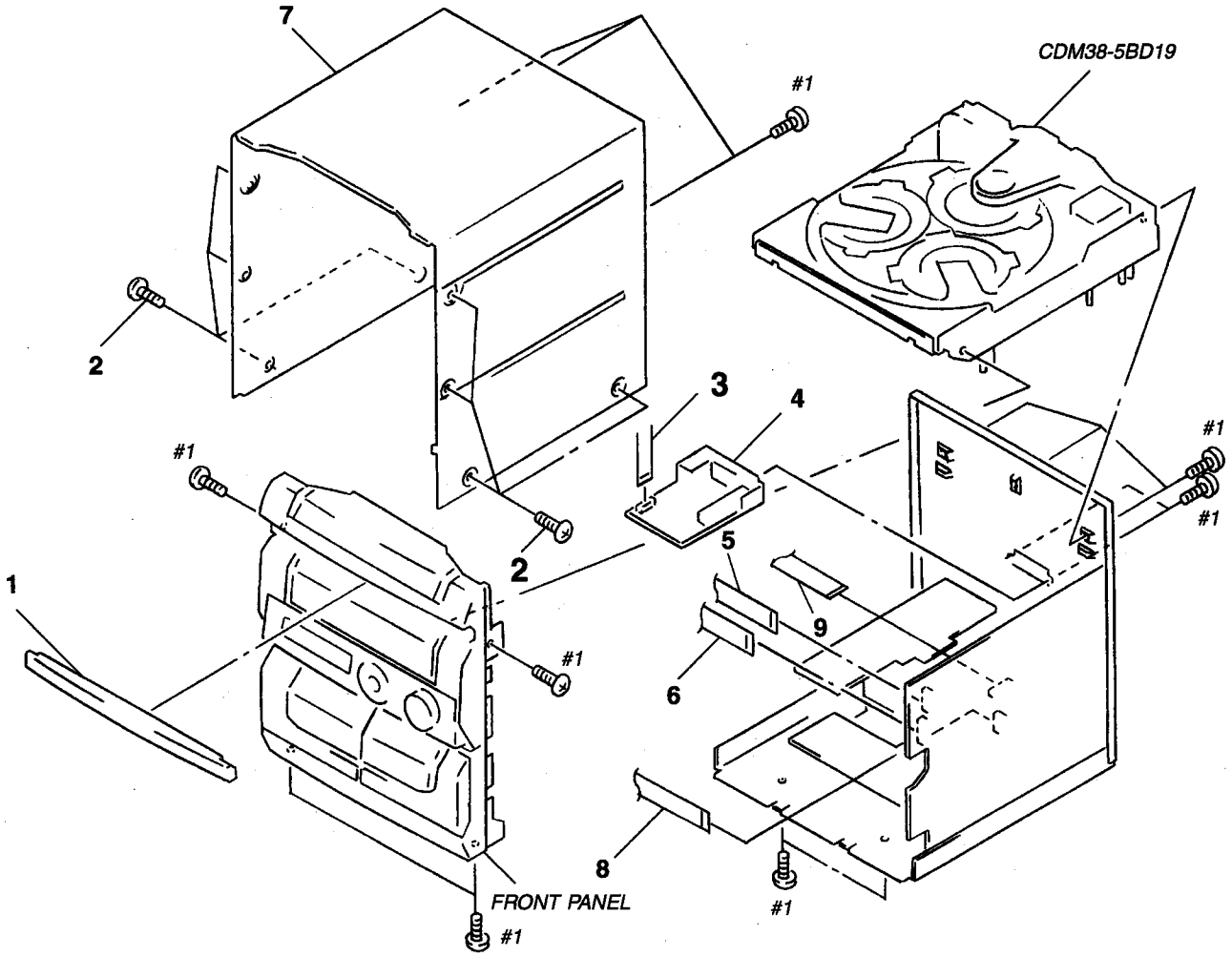
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
  CND: Canadian model
  G: German model
  IT: Italian model

EA: Saudi Arabia model
HK: Hong Kong model
SP: Singapore model
MY: Malaysia model
AUS: Australian model
AR: Argentine model
TH: Thailand model
IA: Indonesian model
E2: Without SW tuner model
E3: With SW tuner model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

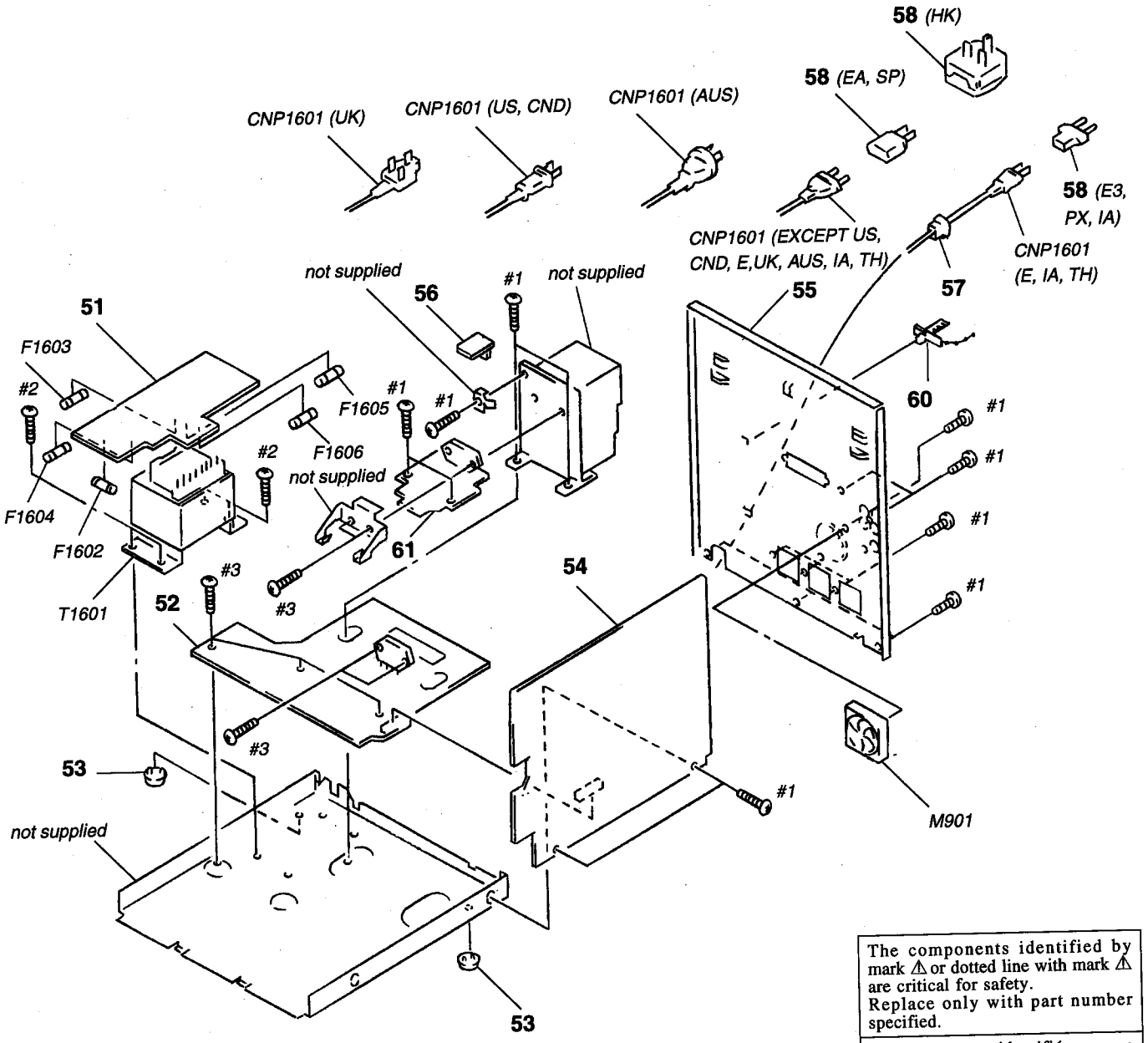
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

7-1. CASE SECTION



Ref. No.	Part No.	Description	Remark
* 1	4-979-851-41	PANEL, LOADING (EA, MY, TH)	
1	4-980-115-01	PANEL, LOADING (US, CND, AEP, UK, G, IT)	
1	4-980-115-11	PANEL, LOADING (E, AUS, SP, HK, IA, AR, PX)	
2	3-363-099-01	SCREW (CASE 3 TP2)	
3	1-751-086-11	WIRE (FLAT TYPE) (13 CORE) (US, CND, E2, AUS, AR, TH)	
3	1-773-012-11	WIRE (FLAT TYPE) (15 CORE) (AEP, UK, E3, PX, G, IT, EA, MY, SP, HK, IA)	
* 4	A-4303-512-A	TCB BOARD (E2, AUS, AR)	
* 4	A-4303-506-A	TCB BOARD (E3, PX, SP, HK, IA)	
* 4	A-4303-510-A	TCB BOARD (US, CND)	
* 4	A-4303-514-A	TCB BOARD (Malaysia product) (AEP)	
* 4	A-4303-518-A	TCB BOARD (EA, MY)	
* 4	A-4303-537-A	TCB BOARD (TH)	
* 4	A-4303-502-A	TCB BOARD (Indonesia product) (AEP, UK)	
* 4	A-4303-503-A	TCB BOARD (G, IT)	
5	1-773-157-11	WIRE (FLAT TYPE) (21 CORE)	
6	1-769-977-11	WIRE (FLAT TYPE) (13 CORE)	
* 7	4-978-748-01	CASE (Except Indonesia product)	
* 7	4-978-748-61	CASE (Indonesia product)	
8	1-765-325-11	WIRE (FLAT TYPE) (11 CORE)	
9	1-776-442-11	WIRE (FLAT TYPE) (19 CORE)	

7-2. BACK PANEL SECTION

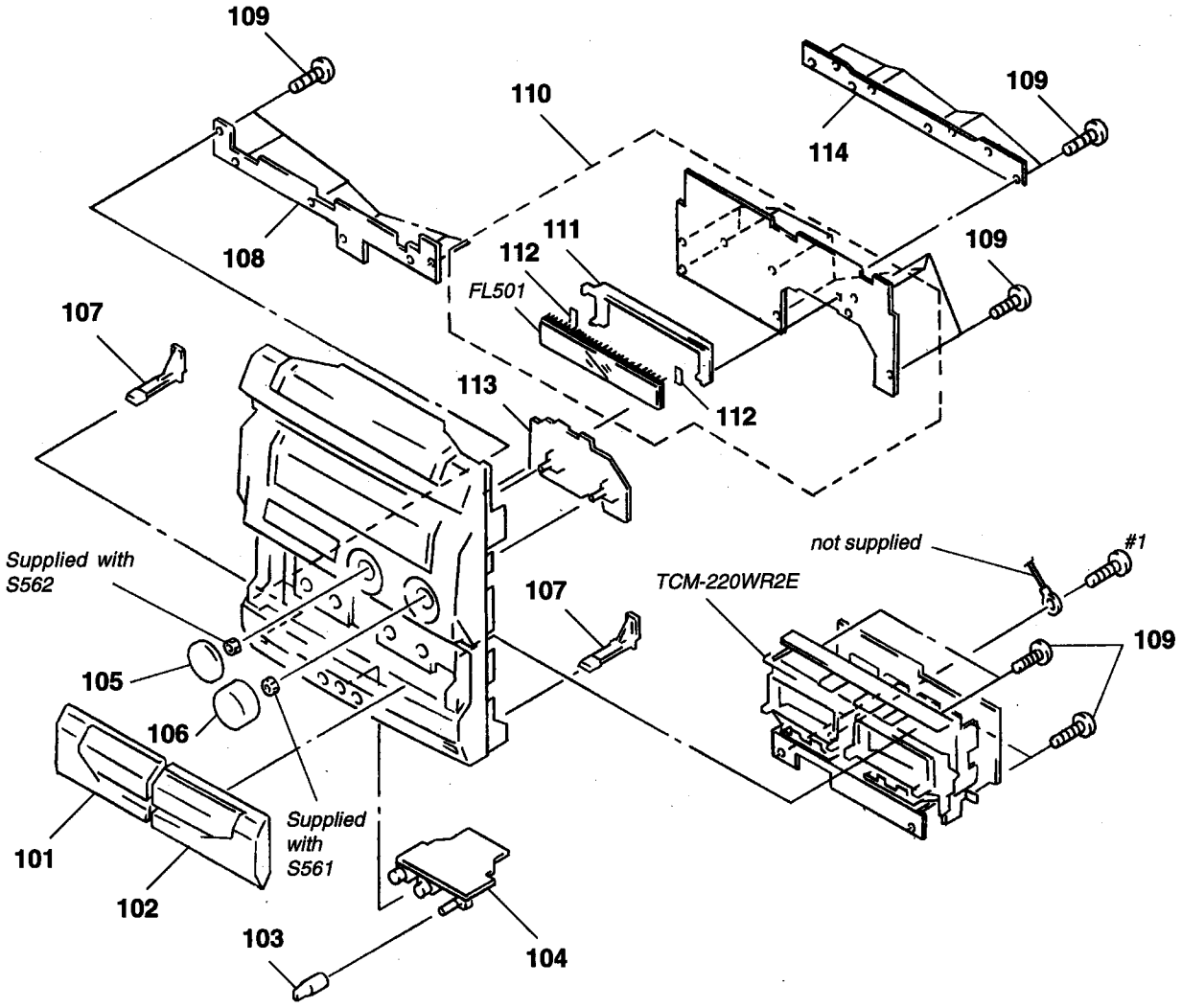


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
* 51	1-659-624-11	TRANSFORMER BOARD	
* 52	A-4389-543-A	POWER AMP BOARD, COMPLETE (AEP, UK, G, IT)	
* 52	A-4389-557-A	POWER AMP BOARD, COMPLETE (US, CND)	
* 52	A-4389-566-A	POWER AMP BOARD, COMPLETE	(E, AUS, SP, HK, IA, AR, PX)
* 52	A-4389-975-A	POWER AMP BOARD, COMPLETE (TH)	
* 52	A-4390-000-A	POWER AMP BOARD, COMPLETE (EA, MY)	
53	4-965-822-01	FOOT	
* 54	A-4389-549-A	MAIN BOARD, COMPLETE (AEP, UK)	
* 54	A-4389-560-A	MAIN BOARD, COMPLETE (US, CND)	
* 54	A-4389-563-A	MAIN BOARD, COMPLETE (E2, AR)	
* 54	A-4389-570-A	MAIN BOARD, COMPLETE (E3, PX, SP, HK, IA)	
* 54	A-4389-980-A	MAIN BOARD, COMPLETE (TH)	
* 54	A-4390-003-A	MAIN BOARD, COMPLETE (EA, MY)	
* 54	A-4390-012-A	MAIN BOARD, COMPLETE (G, IT)	
* 54	A-4390-014-A	MAIN BOARD, COMPLETE (AUS)	
* 55	4-979-583-01	PANEL, BACK (Indonesia product)(AEP)	
* 55	4-979-583-11	PANEL, BACK (UK)	
* 55	4-979-583-21	PANEL, BACK (G)	
* 55	4-979-583-31	PANEL, BACK (IT)	
* 55	4-979-583-41	PANEL, BACK (US)	
* 55	4-979-583-51	PANEL, BACK (CND)	
* 55	4-979-583-61	PANEL, BACK (Malaysia product) (AEP)	
* 55	4-979-584-01	PANEL, BACK (E, IA, PX)	
* 55	4-979-584-11	PANEL, BACK (EA)	
* 55	4-979-584-21	PANEL, BACK (AUS)	
* 55	4-979-584-51	PANEL, BACK (SP)	
* 55	4-979-584-61	PANEL, BACK (AR)	
* 55	4-979-584-71	PANEL, BACK (HK)	
* 55	4-979-584-81	PANEL, BACK (MY)	
* 55	4-979-584-91	PANEL, BACK (TH)	
* 56	1-659-623-11	SENSOR (FAN) BOARD	
57	3-703-244-00	BUSHING (FBS001), CORD (EXCEPT E, IA, TH, PX)	
57	3-703-571-11	BUSHING (S) (4516), CORD (TH)	
57	4-966-266-01	BUSHING (S) (FBS002), CORD (E, IA, PX)	
⚠58	1-569-007-11	ADAPTER, CONVERSION 2P (E3, PX, IA)	
⚠58	1-569-008-11	ADAPTER, CONVERSION 2P (EA, SP)	
⚠58	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (HK)	
60	4-956-370-12	BAND, PLUG FIXED (UK, AUS, HK)	
* 61	A-4389-546-A	SURROUND AMPLIFIER BOARD, COMPLETE	(AEP, UK, G, IT)
* 61	A-4389-568-A	SURROUND AMPLIFIER BOARD, COMPLETE	(US, CND, E, AUS, SP, HK, IA, AR, PX)
* 61	A-4389-978-A	SURROUND AMPLIFIER BOARD, COMPLETE (TH)	
* 61	A-4390-002-A	SURROUND AMPLIFIER BOARD, COMPLETE	(EA, MY)
⚠CNP1601	1-575-651-11	CORD, POWER (AEP, G, IT, EA, MY, SP, HK, AR)	
⚠CNP1601	1-575-653-11	CORD, POWER(E, IA, PX)	
⚠CNP1601	1-690-608-11	CORD, POWER(AUS)	
⚠CNP1601	1-690-609-21	CORD, POWER(US, CND)	
⚠CNP1601	1-751-326-31	CORD, POWER (TH)	
⚠CNP1601	1-751-520-21	CORD, POWER (UK)	
⚠F1602	1-532-465-31	FUSE, TIME-LAG (3.15A 250V)	(E, EA, SP, HK, IA, AR, PX)
⚠F1603	1-532-506-31	FUSE, TIME-LAG (6.3A 250V) (EXCEPT US, CND)	
⚠F1603	1-533-310-11	FUSE, GLASS CYLINDRICAL (DIA.5)	(6.3A 125V) (US, CND)
⚠F1604	1-532-506-31	FUSE, TIME-LAG (6.3A 250V) (EXCEPT US, CND)	
⚠F1604	1-533-310-11	FUSE, GLASS CYLINDRICAL (DIA.5)	(6.3A 125V) (US, CND)
⚠F1605	1-532-465-31	FUSE, TIME-LAG (3.15A 250V) (EXCEPT US, CND)	
⚠F1605	1-533-419-11	FUSE, GLASS CYLINDRICAL (DIA.5) (4A 125V)	(US, CND)
⚠F1606	1-532-465-31	FUSE, TIME-LAG (3.15A 250V) (EXCEPT US, CND)	
⚠F1606	1-533-419-11	FUSE, GLASS CYLINDRICAL (DIA.5) (4A 125V)	(US, CND)
M901	1-698-659-11	FAN, DC	
⚠T1601	1-429-530-11	TRANSFORMER, POWER (AEP, UK, G, IT)	
⚠T1601	1-429-531-11	TRANSFORMER, POWER	(E, AUS, SP, HK, IA, AR,PX)
⚠T1601	1-429-531-21	TRANSFORMER, POWER (EA, MY, TH)	
⚠T1601	1-429-532-11	TRANSFORMER, POWER (US, CND)	

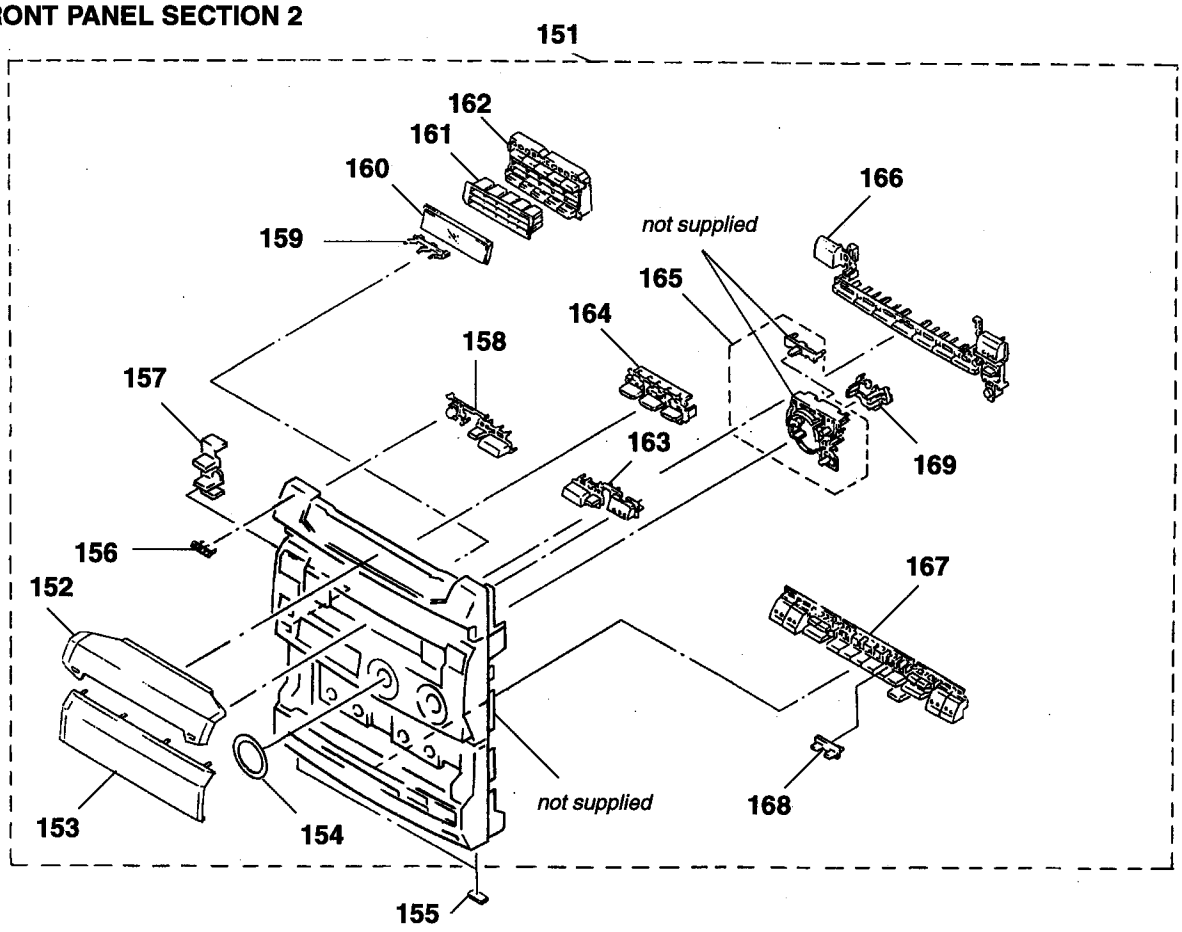
7-3. FRONT PANEL SECTION 1



Ref. No.	Part No.	Description	Remark
101	X-4946-661-1	LID (A) ASSY, CASSETTE	(Except Indonesia product)
101	X-4946-787-1	LID (A) ASSY, CASSETTE (Indonesia product)	
102	X-4946-662-1	LID (B) ASSY, CASSETTE	(Except Indonesia product)
102	X-4946-788-1	LID (B) ASSY, CASSETTE (Indonesia product)	
103	4-973-644-01	KNOB (MIC)	
* 104	A-4389-542-A	HP/MIC BOARD, COMPLETE (Indonesia product)	
* 104	A-4390-713-A	HP/MIC BOARD, COMPLETE (Malaysia product)	
* 104	A-4390-714-A	HP/MIC BOARD, COMPLETE (Thailand product)	
105	4-978-732-01	KNOB, JOG (Except Indonesia product)	
105	4-978-732-11	KNOB, JOG (Indonesia product)	
106	4-978-733-01	KNOB, VOL (Except Indonesia product)	
106	4-978-733-11	KNOB, VOL (Indonesia product)	
107	4-978-731-01	BUTTON, EJECT (Except Indonesia product)	
107	4-978-731-11	BUTTON, EJECT (Indonesia product)	
* 108	A-4389-030-A	TC-SW BOARD, COMPLETE (Malaysia product)	
* 108	A-4389-363-A	TC-SW BOARD, COMPLETE (Thailand product)	

Ref. No.	Part No.	Description	Remark
* 108	A-4389-541-A	TC-SW BOARD, COMPLETE (Indonesia product)	
109	4-951-620-01	SCREW (2.6X8), +BVTP	
* 110	A-4389-027-A	PANEL BOARD, COMPLETE (EA, MY)	
* 110	A-4389-360-A	PANEL BOARD, COMPLETE (TH)	
* 110	A-4389-538-A	PANEL BOARD, COMPLETE (AEP, UK, G, IT)	
* 110	A-4389-556-A	PANEL BOARD, COMPLETE (US, CND)	
* 110	A-4389-562-A	PANEL BOARD, COMPLETE (E2, AR)	
* 110	A-4389-565-A	PANEL BOARD, COMPLETE	(E3, PX, AUS, SP, HK, IA)
111	4-971-014-11	HOLDER, FL TUBE	
* 112	4-932-810-11	CUSHION (FL)	
* 113	A-4389-028-A	JOG BOARD, COMPLETE (Malaysia product)	
* 113	A-4389-361-A	JOG BOARD, COMPLETE (Thailand product)	
* 113	A-4389-539-A	JOG BOARD, COMPLETE (Indonesia product)	
* 114	A-4389-029-A	CD-SW BOARD, COMPLETE (Malaysia product)	
* 114	A-4389-362-A	CD-SW BOARD, COMPLETE (Thailand product)	
* 114	A-4389-540-A	CD-SW BOARD, COMPLETE (Indonesia product)	
FL501	1-517-483-11	INDICATOR TUBE, FLUORESCENT	

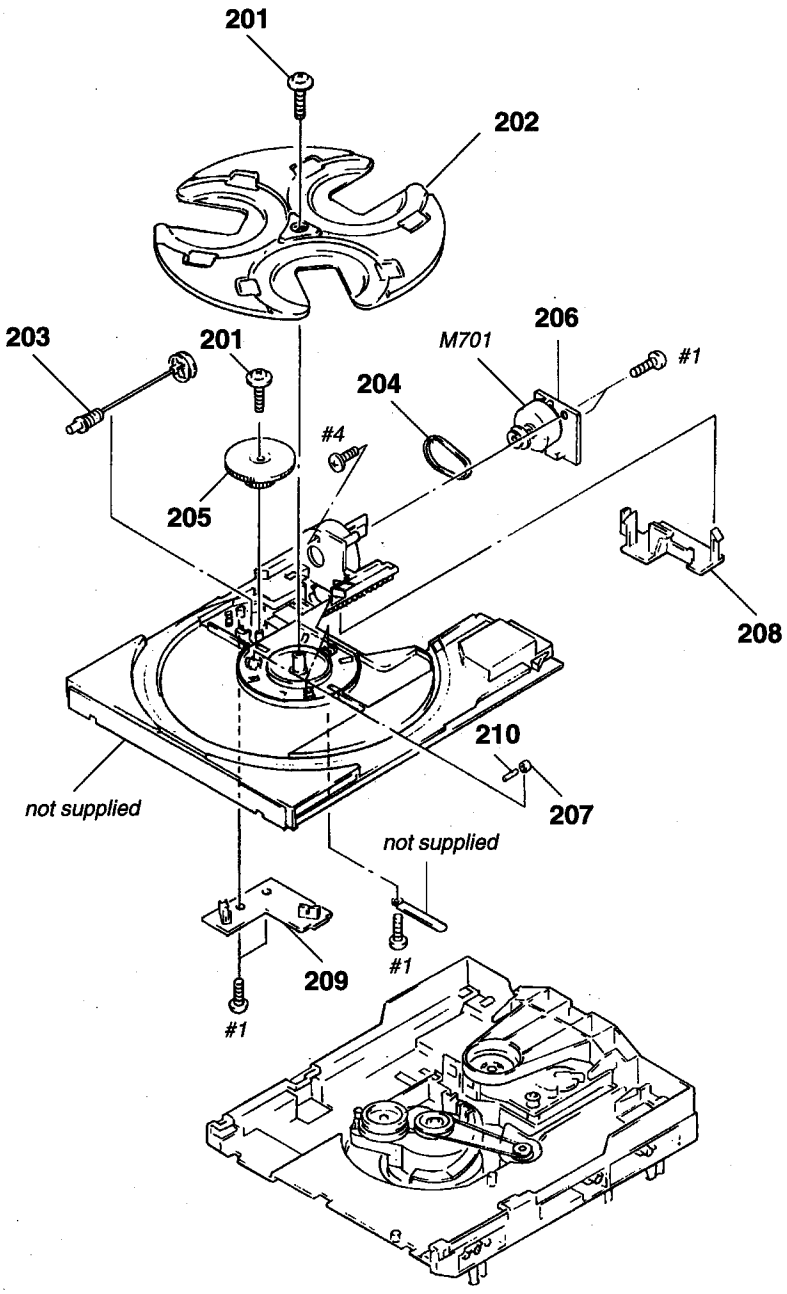
7-4. FRONT PANEL SECTION 2



Ref. No.	Part No.	Description	Remark
151	X-4946-781-1	PANEL ASSY, FRONT	(Indonesia product) (AEP, UK, G, IT)
151	X-4946-791-1	PANEL ASSY, FRONT	(US, CND, E, AUS, SP, HK, IA, AR, PX)
151	X-4947-008-1	PANEL ASSY, FRONT (Malaysia product) (AEP)	
151	X-4947-009-1	PANEL ASSY, FRONT (EA, MY, TH)	
152	4-978-715-01	WINDOW, 3-CD (Except Indonesia product)	
152	4-978-715-11	WINDOW, 3-CD (Indonesia product)	
153	4-978-716-01	WINDOW, FL (Except Indonesia product)	
153	4-978-716-11	WINDOW, FL (Indonesia product)	
154	4-978-745-01	PLATE, ORNAMENTAL, JOG	(Except Indonesia product)
154	4-978-745-31	PLATE, ORNAMENTAL, JOG (Indonesia product)	
155	4-930-336-61	FOOT (FELT)	
156	4-962-708-11	EMBLEM (4-A), SONY (Except Indonesia product)	
156	4-962-708-21	EMBLEM (4-A), SONY (Indonesia product)	
157	4-978-725-01	BUTTON, DSP (Except Indonesia product)	
157	4-978-725-11	BUTTON, DSP (Indonesia product)	
158	4-978-723-01	BUTTON, POWER (Except Indonesia product)	
158	4-978-723-21	BUTTON, POWER (Indonesia product)	
159	4-978-739-01	INDICATOR, CLIP (Except Indonesia product)	
159	4-978-739-11	INDICATOR, CLIP (Indonesia product)	
160	4-978-744-01	PLATE, ORNAMENTAL, MULTI	(Malaysia product) (AEP)
160	4-978-744-11	PLATE, ORNAMENTAL, MULTI (EA, MY, TH)	

Ref. No.	Part No.	Description	Remark
160	4-978-744-51	PLATE, ORNAMENTAL, MULTI	(Indonesia product) (AEP, UK, G, IT)
160	4-978-744-61	PLATE, ORNAMENTAL, MULTI	(US, CND, E, AUS, SP, HK, IA, AR, PX)
161	4-978-742-01	HOLDER, MULTI LED (Except Indonesia product)	
161	4-978-742-11	HOLDER, MULTI LED (Indonesia product)	
162	4-978-728-01	BUTTON, MULTI (Except Indonesia product)	
162	4-978-728-11	BUTTON, MULTI (Indonesia product)	
163	X-4946-698-1	BUTTON (CD-PLAY) ASSY	(Except Indonesia product)
163	X-4946-782-1	BUTTON (CD-PLAY) ASSY (Indonesia product)	
164	X-4946-703-1	BUTTON (3-CD) ASSY (Except Indonesia product)	
164	X-4946-783-1	BUTTON (3-CD) ASSY (Indonesia product)	
165	X-4946-704-1	BUTTON (ENTER/NEXT) ASSY	(Except Indonesia product)
165	X-4946-785-1	BUTTON (ENTER/NEXT) ASSY (Indonesia product)	
166	X-4946-699-1	BUTTON (T/B) ASSY (Except Indonesia product)	
166	X-4946-784-1	BUTTON (T/B) ASSY (Indonesia product)	
167	X-4946-700-1	BUTTON (TC-PLAY) ASSY	(Except Indonesia product)
167	X-4946-786-1	BUTTON (TC-PLAY) ASSY (Indonesia product)	
168	4-978-736-01	INDICATOR, REC (Except Indonesia product)	
168	4-978-736-11	INDICATOR, REC (Indonesia product)	
169	4-978-741-01	INDICATOR, JOG-B (Except Indonesia product)	
169	4-978-741-11	INDICATOR, JOG-B (Indonesia product)	

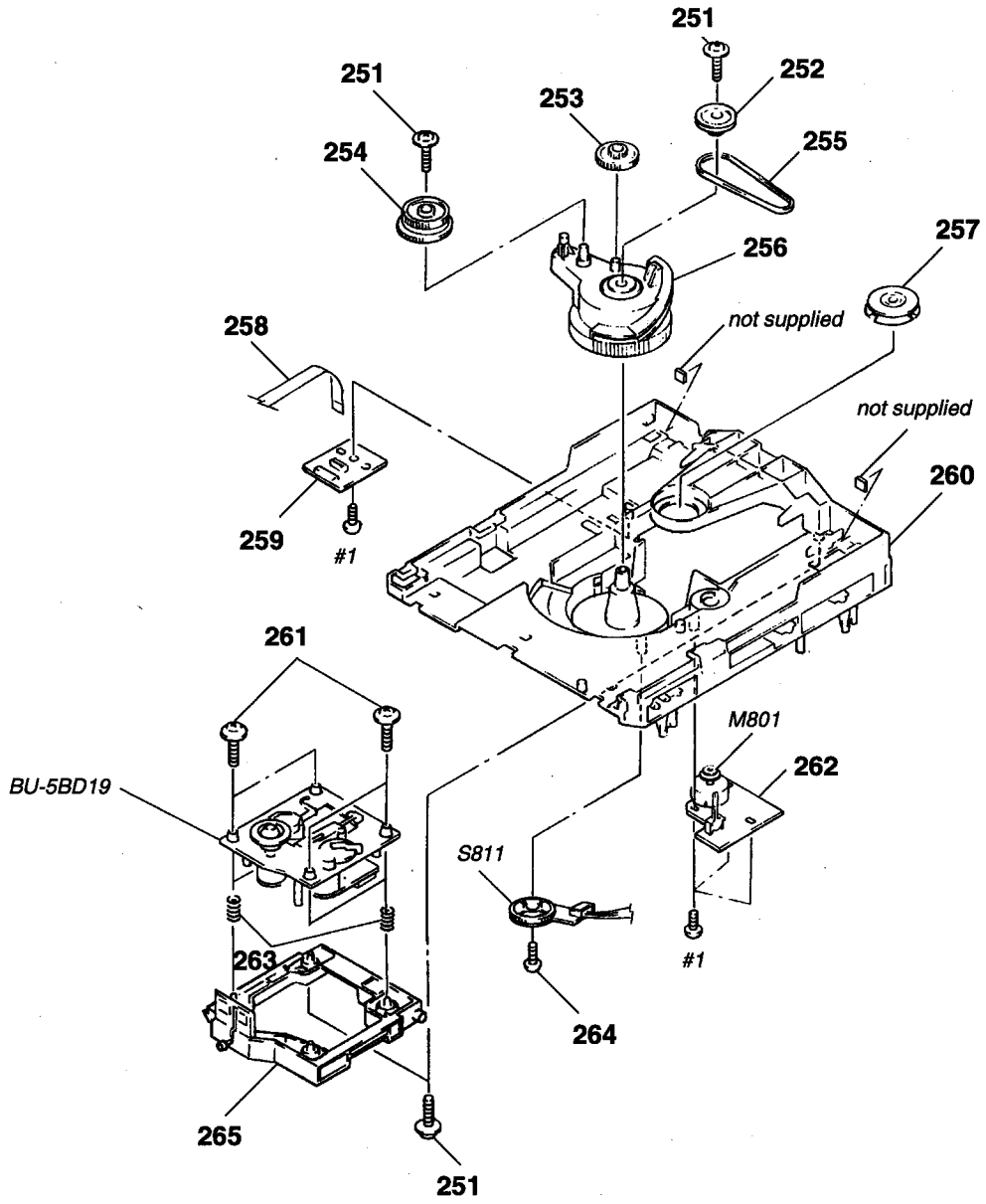
7-5. CD MECHANISM SECTION 1 (CDM38-5BD19)



Ref. No.	Part No.	Description	Remark
201	4-917-583-21	BRACKET, YOKE (Except Indonesia product)	
201	4-917-583-71	BRACKET, YOKE (Indonesia product)	
202	4-977-945-01	TRAY (TURN)	
203	X-4946-665-1	SHAFT ASSY, WORM	
204	4-977-943-01	BELT (TURN) (1.2)	
205	4-977-956-01	WHEEL, WORM	

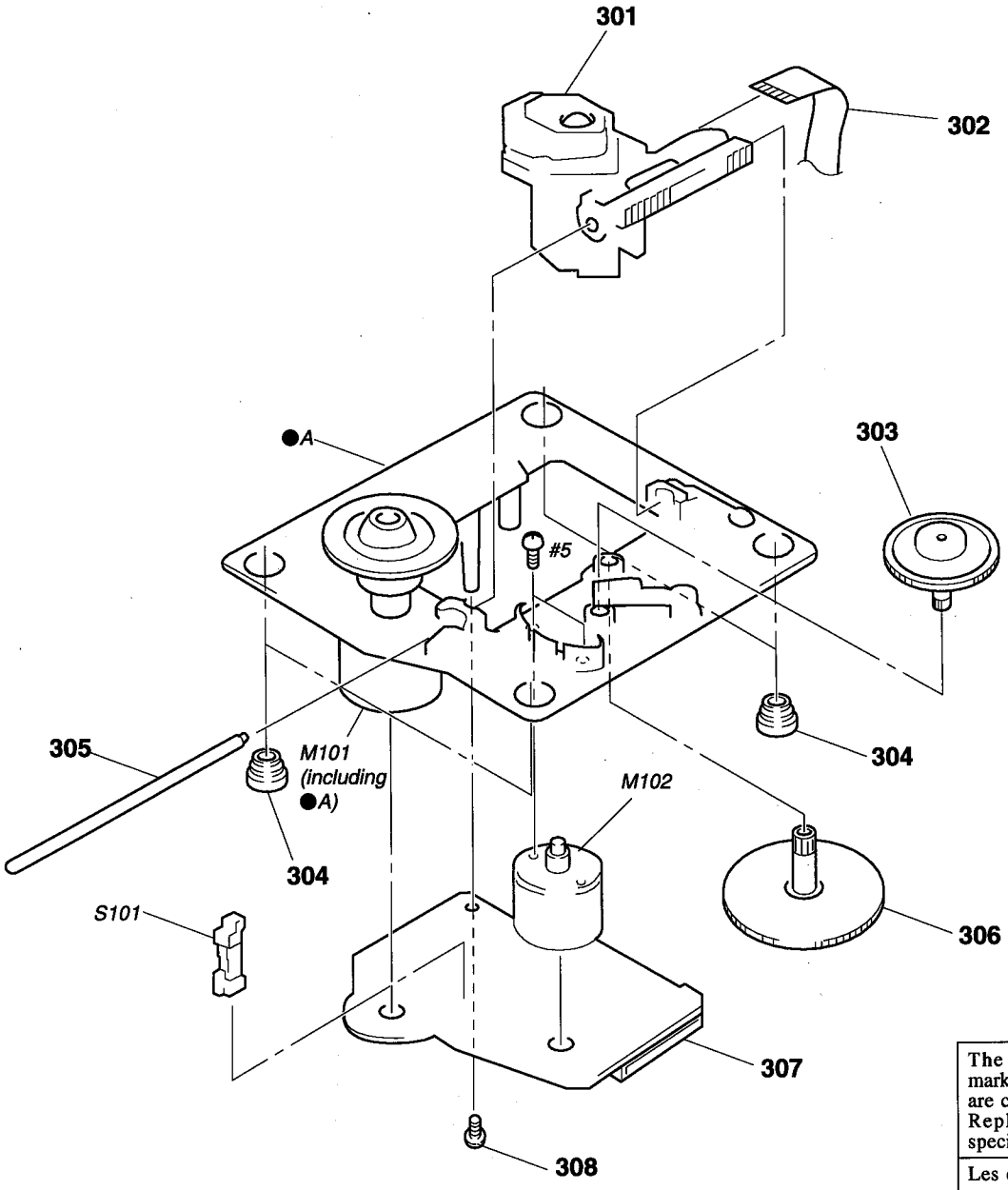
Ref. No.	Part No.	Description	Remark
* 206	1-658-577-11	MOTOR (TURN) BOARD	
207	X-4924-457-1	ROLLER ASSY	
208	4-977-941-01	BEARING (WORM)	
* 209	1-658-576-11	SENSOR BOARD	
210	4-934-376-01	SHAFT (ROLLER)	
M701	A-4672-004-A	MOTOR ASSY (TURN)	

7-6. CD MECHANISM SECTION 2 (CDM38-5BD19)



Ref. No.	Part No.	Description	Remark
251	4-917-583-21	BRACKET, YOKE (Except Indonesia product)	
251	4-917-583-71	BRACKET, YOKE (Indonesia product)	
252	4-977-954-01	PULLEY (SL)	
253	4-977-953-01	GEAR (SL-A)	
254	4-977-955-01	GEAR (SL-B)	
255	4-977-942-01	BELT (SL) (1.4)	
256	X-4946-667-1	CAM ASSY, BU	
257	1-452-538-11	MAGNET	
258	1-776-042-11	WIRE (FLAT TYPE) (8 CORE)	
* 259	1-658-575-11	CONNECTOR BOARD	
* 260	X-4946-668-1	CHASSIS (CDM) ASSY	
261	4-933-134-01	SCREW (+PTPWH M2.6X6)	
* 262	1-658-578-11	MOTOR (SLIDE) BOARD	
263	4-982-447-01	SPRING (BU), COMPRESSION	
264	4-951-620-41	SCREW (2.6), +BVTP	
* 265	X-4946-666-1	HOLDER (BU) ASSY	
M801	A-4672-004-A	MOTOR ASSY (SLED)	
S811	1-473-335-11	ENCODER, ROTARY (BU, TRAY ADDRESS DET)	

7-7. BASE UNIT SECTION (BU-5BD19)



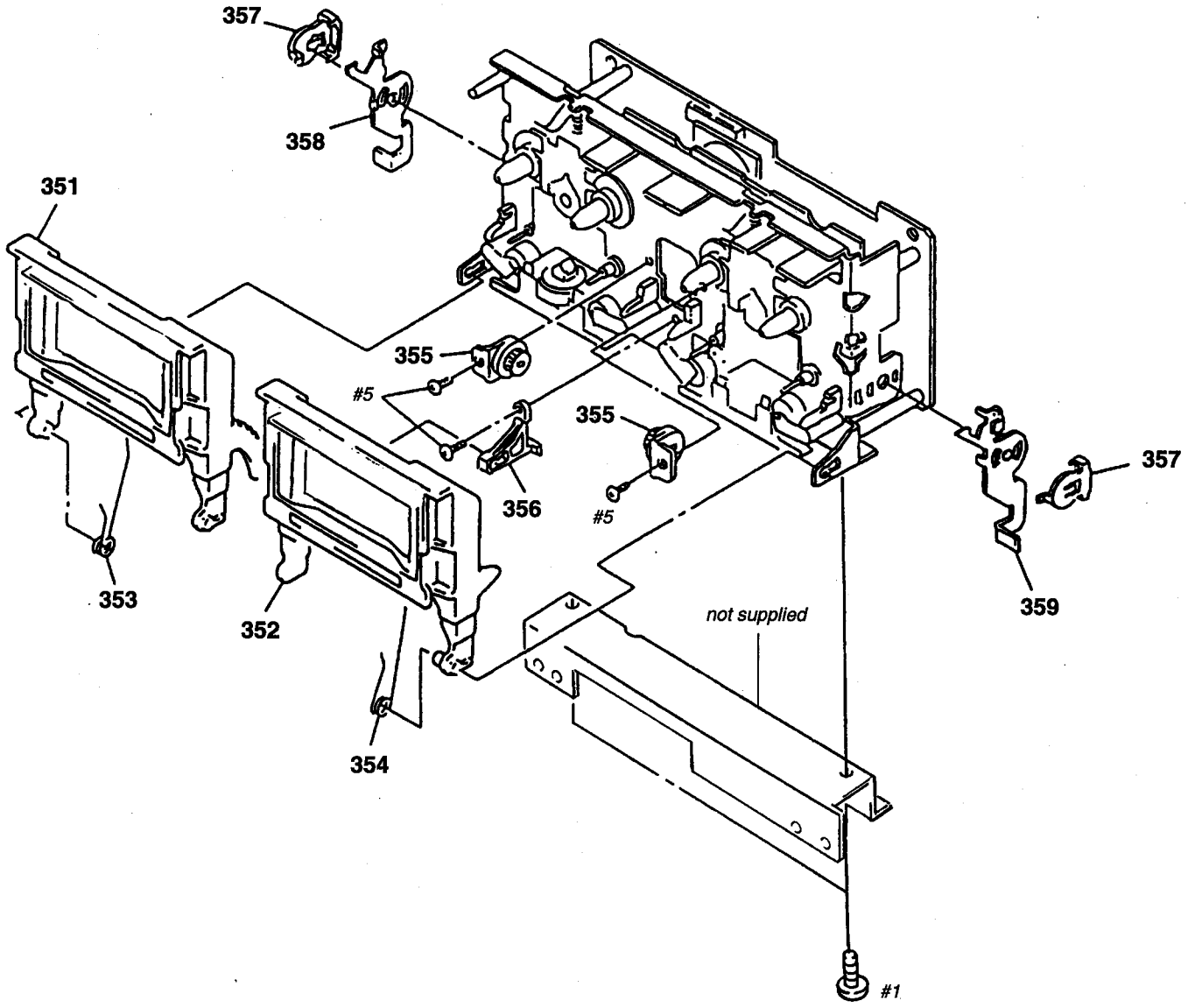
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
⚠301	8-848-367-11	OPTICAL PICK UP KSS-213BA/F-NP	
302	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
303	4-917-567-01	GEAR (M)	
304	4-951-940-01	INSULATOR (BU)	
305	4-917-565-01	SHAFT, SLED	
306	4-917-564-01	GEAR (P), FLATNESS	

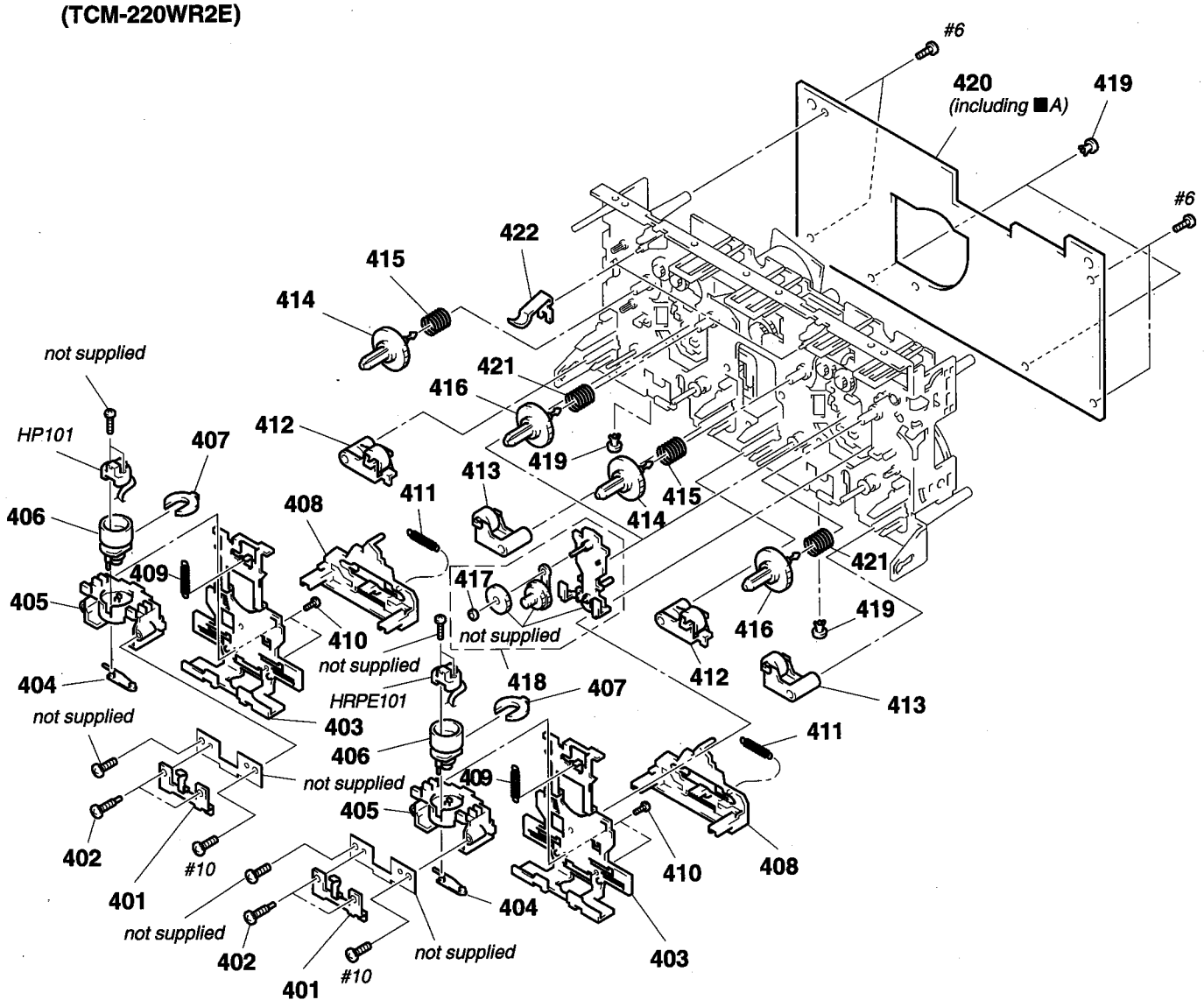
Ref. No.	Part No.	Description	Remark
* 307	A-4673-402-A	BD BOARD, COMPLETE	
308	4-951-620-01	SCREW (2.6X8), +BVTP	
M101	X-4917-523-4	MOTOR ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY (SLED)	
S101	1-572-085-11	SWITCH, LEAF (LIMIT)	

7-8. TC MECHANISM SECTION 1 (TCM-220WR2E)



Ref. No.	Part No.	Description	Remark
351	X-4946-663-1	HOLDER (L) ASSY, CASSETTE (Except Indonesia product)	
351	X-4946-789-1	HOLDER (L) ASSY, CASSETTE (Indonesia product)	
352	X-4946-664-1	HOLDER (R) ASSY, CASSETTE (Except Indonesia product)	
352	X-4946-790-1	HOLDER (R) ASSY, CASSETTE (Indonesia product)	
353	4-969-231-11	SPRING (L), TORSION	
354	4-959-232-11	SPRING (R), TORSION	
355	3-354-963-01	DAMPER	
* 356	4-980-439-01	FULCRUM, HOLDER	
357	3-354-957-01	JOINT (LOCK LEVER)	
* 358	3-354-953-01	LEVER (LOCK LEVER L)	
* 359	3-354-954-01	LEVER (LOCK LEVER R)	

7-9. TC MECHANISM SECTION 2
(TCM-220WR2E)

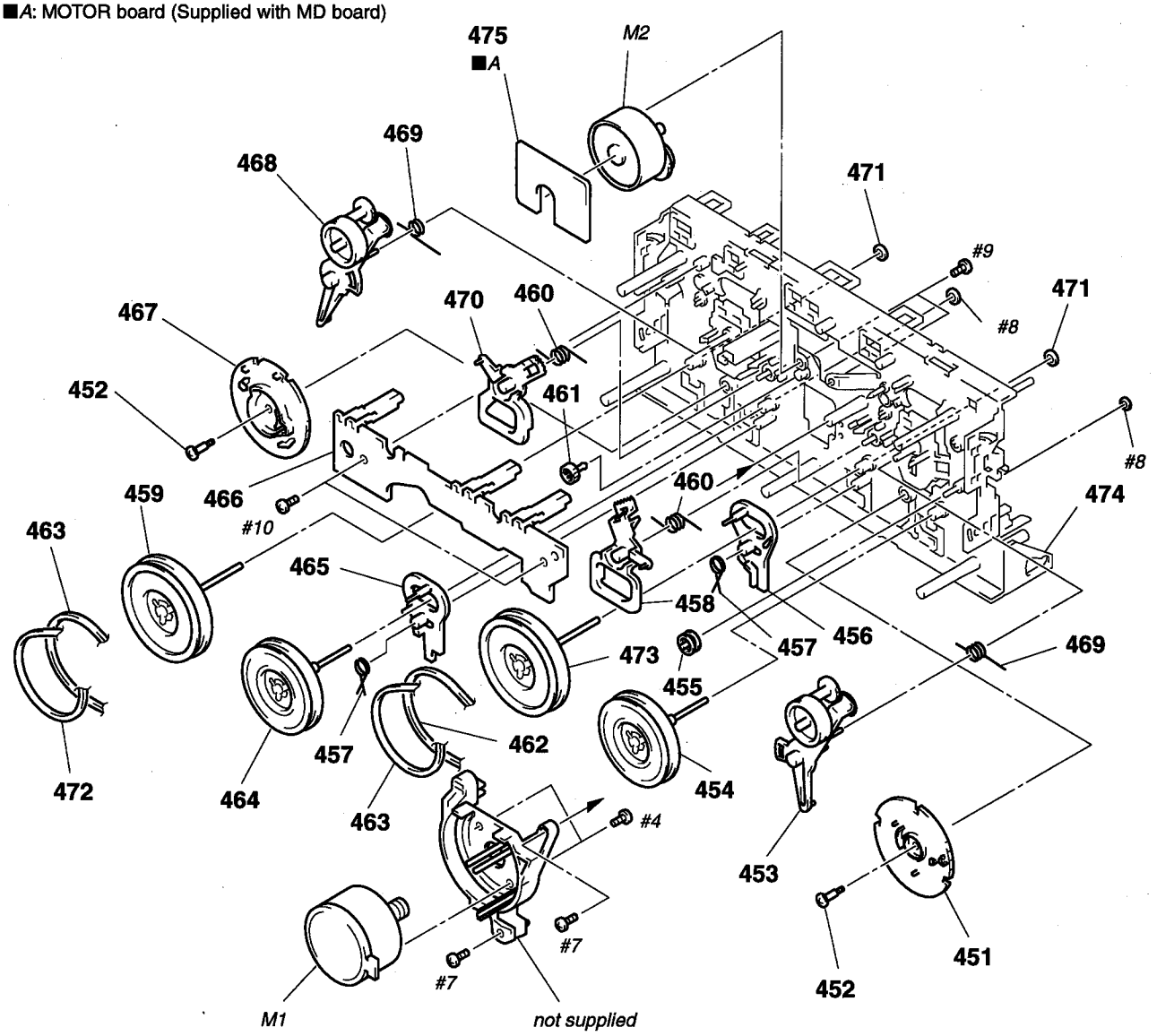


Ref. No.	Part No.	Description	Remark
401	3-908-560-01	SPRING, AZIMUTH ADJUSTMENT	
402	3-919-684-01	SCREW, AZIMUTH ADJUSTMENT	
* 403	X-3367-584-2	SLIDER (HEAD) ASSY	
404	3-908-556-01	SPRING, HEAD TOGGLE	
405	3-908-558-02	FITTING BLOCK, HEAD	
406	3-908-557-02	ROTARY BLOCK, HEAD	
* 407	3-908-559-01	STOPPER, AZIMUTH	
408	3-908-555-01	SLIDER (REV SLIDER)	
409	3-917-143-11	SPRING, TENSION	
410	3-388-848-01	SCREW (P2X6) (B TIGHT)	
411	3-911-113-01	SPRING, TENSION	
412	X-3370-643-1	PINCH LEVER (REV) ASSY	

Ref. No.	Part No.	Description	Remark
413	X-3367-588-1	PINCH LEVER (FWD) ASSY	
414	3-908-613-01	GEAR (S), REEL	
415	3-917-141-01	SPRING, COMPRESSION	
416	X-3371-305-1	REEL (T) ASSY	
417	3-669-465-01	WASHER (1.5), STOPPER	
418	X-3370-173-1	TU ASSY	
419	3-911-116-21	RIVET, PUSH	
* 420	A-2007-435-A	MD BOARD, COMPLETE	
421	3-917-142-01	SPRING, COMPRESSION	
422	3-930-972-01	DETENT, HALF	
HP101	1-500-093-11	HEAD, MAGNETIC (PLAYBACK)	
HRPE101	1-500-094-11	HEAD, MAGNETIC (REC/PB/ERASE)	

7-10. TC MECHANISM SECTION 3 (TCM-220WR2E)

■A: MOTOR board (Supplied with MD board)



Ref. No.	Part No.	Description	Remark
451	3-908-597-01	CAM (A)	
452	3-908-608-11	SCREW, STEP	
453	X-3367-590-2	ARM (A) ASSY, FR	
454	X-3370-169-1	FLYWHEEL (AR) ASSY	
455	3-928-047-01	PULLEY, TENSION	
456	3-908-599-01	LEVER (REV-A)	
457	3-908-601-01	SPRING (REV LEVER), TORSION	
458	3-908-603-01	LEVER (TRIGGER A)	
459	X-3370-170-1	FLYWHEEL (BF) ASSY	
460	3-908-605-01	SPRING (TRIGGER), TORSION	
461	3-908-609-01	GEAR, TRIGGER	
462	3-913-845-11	BELT (A)	
463	3-913-846-11	BELT (FR)	
464	X-3370-171-1	FLYWHEEL (BR) ASSY	

Ref. No.	Part No.	Description	Remark
465	3-908-600-01	LEVER (REV-B)	
466	1-650-669-11	LEAF SWITCH BOARD	
467	3-908-598-01	CAM (B)	
468	X-3369-849-2	ARM (B) ASSY, FR	
469	3-914-111-01	SPRING (FR), TORSION	
470	3-908-604-01	LEVER (TRIGGER B)	
471	3-911-115-01	WASHER, STOPPER	
472	3-917-176-11	BELT (B)	
473	X-3370-172-1	FLYWHEEL (AF) ASSY	
474	X-3371-441-1	CHASSIS ASSY, MECHANICAL	
* 475	A-2007-435-A	MD BOARD, COMPLETE	
M1	X-3371-223-1	MOTOR ASSY (CAPSTAN)	
M2	A-2004-410-A	MOTOR ASSY (TRIGGER)	

BD

SECTION 8
ELECTRICAL PARTS LIST

Note:

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F : nonflammable
- SEMICONDUCTORS
  In each case, u: μ , for example:
  uA...: μ A..., uPA...: μ PA..., uPB...: μ PB..., uPC...: μ PC..., uPD...: μ PD...
- CAPACITORS
  uF : μ F
- COILS
  uH : μ H
- Abbreviation
  CND: Canadian model
  G: German model
  IT: Italian model
  EA: Saudi Arabia model
  HK: Hong Kong model
  SP: Singapore model
  MY: Malaysia model
  AUS: Australian model
  AR: Argentine model
  TH: Thailand model
  IA: Indonesian model
  E2: Without SW tuner model
  E3: With SW tuner model

Ref. No.	Part No.	Description			Remark
*	A-4673-402-A	BD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-126-607-11	ELECT CHIP	47uF	20%	4V
C102	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C103	1-164-346-11	CERAMIC CHIP	1uF		16V
C105	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C106	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V
C107	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V
C108	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C109	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C110	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C111	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C112	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C113	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V
C114	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C115	1-126-607-11	ELECT CHIP	47uF	20%	4V
C116	1-163-016-00	CERAMIC CHIP	0.0039uF	10%	50V
C117	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C118	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C119	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C120	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C121	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C122	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C123	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C124	1-126-607-11	ELECT CHIP	47uF	20%	4V
C125	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C126	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C127	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V
C128	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
C129	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C130	1-164-336-11	CERAMIC CHIP	0.33uF		25V
C131	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C132	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C133	1-163-145-00	CERAMIC CHIP	0.0015uF	5%	50V
C134	1-164-346-11	CERAMIC CHIP	1uF		16V
C135	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C136	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C137	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C139	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C140	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C141	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C142	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C145	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C146	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C147	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C148	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C149	1-164-346-11	CERAMIC CHIP	1uF		16V
C153	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C154	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
		< CONNECTOR >			
CNU101	1-770-014-11	CONNECTOR, FFC/FPC 16P			
CNU102	1-770-013-11	CONNECTOR, FFC/FPC 19P			
		< IC >			
IC101	8-752-069-56	IC CXA1782BQ			
IC102	8-759-291-06	IC BA6397FP			
IC103	8-752-372-94	IC CXD2507AQ			
IC104	8-759-185-29	IC PCM1710U-B			
		< TRANSISTOR >			
Q101	8-729-010-08	TRANSISTOR MSB710-R			
Q102	8-729-424-08	TRANSISTOR UN2111			
Q103	8-729-421-22	TRANSISTOR UN2211			
		< RESISTOR >			
R102	1-216-001-00	METAL CHIP	10	5%	1/10W
R103	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R104	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R105	1-216-093-00	METAL CHIP	68K	5%	1/10W
R106	1-216-093-00	METAL CHIP	68K	5%	1/10W
R107	1-216-093-00	METAL CHIP	68K	5%	1/10W
R108	1-216-093-00	METAL CHIP	68K	5%	1/10W
R109	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R112	1-216-083-00	METAL CHIP	27K	5%	1/10W
R113	1-216-083-00	METAL CHIP	27K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R114	1-216-101-00	METAL CHIP	150K	5%	1/10W
R115	1-216-101-00	METAL CHIP	150K	5%	1/10W
R116	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R117	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R118	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R119	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R120	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R121	1-216-114-00	METAL GLAZE	510K	5%	1/10W
R122	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R123	1-216-099-00	METAL CHIP	120K	5%	1/10W
R124	1-216-091-00	METAL CHIP	56K	5%	1/10W
R125	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R126	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
R127	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R128	1-216-105-91	METAL GLAZE	220K	5%	1/10W
R129	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R130	1-216-079-00	METAL CHIP	18K	5%	1/10W
R131	1-216-079-00	METAL CHIP	18K	5%	1/10W
R132	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R133	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R134	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R135	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R136	1-216-073-00	METAL CHIP	10K	5%	1/10W
R137	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R138	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R139	1-216-033-00	METAL CHIP	220	5%	1/10W
R140	1-216-081-00	METAL CHIP	22K	5%	1/10W
R141	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R142	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R143	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R144	1-216-073-00	METAL CHIP	10K	5%	1/10W
R145	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R146	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R147	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R148	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R149	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R150	1-216-037-00	METAL CHIP	330	5%	1/10W
R151	1-216-037-00	METAL CHIP	330	5%	1/10W
R152	1-216-037-00	METAL CHIP	330	5%	1/10W
R153	1-216-082-00	METAL GLAZE	24K	5%	1/10W
R154	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R156	1-216-085-00	METAL CHIP	33K	5%	1/10W
R157	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R158	1-216-001-00	METAL CHIP	10	5%	1/10W

< VARIABLE RESISTOR >

RV101	1-241-396-11	RES, ADJ, METAL GLAZE 22K
RV102	1-241-396-11	RES, ADJ, METAL GLAZE 22K
RV103	1-241-396-11	RES, ADJ, METAL GLAZE 22K

Ref. No.	Part No.	Description	Remark
		< SWITCH >	
S101	1-572-085-11	SWITCH, LEAF (LIMIT)	
		< VIBRATOR >	
X101	1-579-280-11	VIBRATOR, CRYSTAL (16.9344MHz)	
**********			
*	A-4389-029-A	CD-SW BOARD, COMPLETE (Malaysia product)	
		**********	
*	A-4389-362-A	CD-SW BOARD, COMPLETE (Thailand product)	
		**********	
*	A-4389-540-A	CD-SW BOARD, COMPLETE (Indonesia product)	
		**********	
		< CONNECTOR >	
* CN505	1-568-947-11	PIN, CONNECTOR 9P	
		< DIODE >	
D516	8-719-056-13	DIODE SML79423C-TP15 (DISC 1)	
D517	8-719-056-13	DIODE SML79423C-TP15 (DISC 1)	
D518	8-719-056-13	DIODE SML79423C-TP15 (DISC 2)	
D519	8-719-056-13	DIODE SML79423C-TP15 (DISC 2)	
D520	8-719-056-13	DIODE SML79423C-TP15 (DISC 3)	
D521	8-719-056-13	DIODE SML79423C-TP15 (DISC 3)	
D522	8-719-056-13	DIODE SML79423C-TP15 (▷II)	
		< TRANSISTOR >	
Q510	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q511	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q512	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q513	8-729-119-76	TRANSISTOR 2SA1175-HFE	
		< RESISTOR >	
R518	1-249-401-11	CARBON 47 5% 1/4W	F
R519	1-249-403-11	CARBON 68 5% 1/4W	F
R520	1-247-807-31	CARBON 100 5% 1/4W	
R521	1-249-407-11	CARBON 150 5% 1/4W	F
R522	1-249-407-11	CARBON 150 5% 1/4W	F
R523	1-247-815-91	CARBON 220 5% 1/4W	
R524	1-249-411-11	CARBON 330 5% 1/4W	
R525	1-249-413-11	CARBON 470 5% 1/4W	F
R596	1-249-403-11	CARBON 68 5% 1/4W	
R597	1-249-403-11	CARBON 68 5% 1/4W	
R598	1-249-403-11	CARBON 68 5% 1/4W	
R599	1-249-403-11	CARBON 68 5% 1/4W	
R600	1-249-403-11	CARBON 68 5% 1/4W	
R601	1-249-403-11	CARBON 68 5% 1/4W	
R602	1-249-403-11	CARBON 68 5% 1/4W	

CD-SW **CONNECTOR** **HP/MIC** **JOG**

Ref. No.	Part No.	Description				Remark
R603	1-249-403-11	CARBON	68	5%	1/4W	
R604	1-249-403-11	CARBON	68	5%	1/4W	
R605	1-249-403-11	CARBON	68	5%	1/4W	
R606	1-249-403-11	CARBON	68	5%	1/4W	
R607	1-249-403-11	CARBON	68	5%	1/4W	
R608	1-249-403-11	CARBON	68	5%	1/4W	
R609	1-249-403-11	CARBON	68	5%	1/4W	
		< SWITCH >				
S500	1-554-303-21	SWITCH, TACTILE (POWER)				
S501	1-554-303-21	SWITCH, TACTILE (LOOP)				
S502	1-554-303-21	SWITCH, TACTILE (DISC SKIP EX-CHANGE)				
S503	1-554-303-21	SWITCH, TACTILE (DISC 1)				
S504	1-554-303-21	SWITCH, TACTILE (DISC 2)				
S505	1-554-303-21	SWITCH, TACTILE (DISC 3)				
S506	1-554-303-21	SWITCH, TACTILE (⏏ OPEN/CLOSE)				
S507	1-554-303-21	SWITCH, TACTILE (■)				
S508	1-554-303-21	SWITCH, TACTILE (▷II)				
**********						
*	1-658-575-11	CONNECTOR BOARD				
		**********				
		< CONNECTOR >				
* CN701	1-568-946-11	PIN, CONNECTOR 8P				
CN702	1-750-413-11	CONNECTOR, FFC/FPC 8P				
		< TRANSISTOR >				
Q701	8-729-900-80	TRANSISTOR DTC114ES				
		< RESISTOR >				
R703	1-249-435-11	CARBON	33K	5%	1/4W	
R704	1-249-429-11	CARBON	10K	5%	1/4W	
R705	1-249-417-11	CARBON	1K	5%	1/4W	F
**********						
*	A-4389-542-A	HP/MIC BOARD, COMPLETE (Indonesia product)				
		**********				
*	A-4390-713-A	HP/MIC BOARD, COMPLETE (Malaysia product)				
		**********				
*	A-4390-714-A	HP/MIC BOARD, COMPLETE (Thailand product)				
		**********				
		< CAPACITOR >				
C670	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C671	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C672	1-164-159-11	CERAMIC	0.1uF		50V	
C673	1-164-159-11	CERAMIC	0.1uF		50V	
C674	1-162-306-11	CERAMIC	0.01uF	30%	16V	

Ref. No.	Part No.	Description				Remark
C675	1-124-257-00	ELECT	2.2uF	20%	50V	
C676	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C677	1-162-215-31	CERAMIC	47PF	5%	50V	
C678	1-162-290-31	CERAMIC	470PF	10%	50V	
C679	1-124-465-00	ELECT	0.47uF	20%	50V	
C680	1-162-215-31	CERAMIC	47PF	5%	50V	
C681	1-162-282-31	CERAMIC	100PF	10%	50V	
C684	1-124-261-00	ELECT	10uF	20%	50V	
C686	1-124-261-00	ELECT	10uF	20%	50V	
C687	1-124-465-00	ELECT	0.47uF	20%	50V	
		< IC >				
IC670	8-759-634-51	IC M5218AP				
		< JACK >				
J670	1-770-226-11	JACK (LARGE TYPE) (PHONES)				
J671	1-770-226-11	JACK (LARGE TYPE) (MIX MIC)				
		< RESISTOR >				
R670	1-249-429-11	CARBON	10K	5%	1/4W	
R671	1-249-417-11	CARBON	1K	5%	1/4W	F
R672	1-249-441-11	CARBON	100K	5%	1/4W	
R673	1-249-417-11	CARBON	1K	5%	1/4W	F
R674	1-247-863-91	CARBON	22K	5%	1/4W	
R675	1-249-429-11	CARBON	10K	5%	1/4W	
R676	1-247-881-00	CARBON	120K	5%	1/4W	
R677	1-247-807-31	CARBON	100	5%	1/4W	
		< VARIABLE RESISTOR >				
RV670	1-223-983-11	RES, VAR, CARBON 50K (MIC LEVEL)				
**********						
*	A-4389-028-A	JOG BOARD, COMPLETE (Malaysia product)				
		**********				
*	A-4389-361-A	JOG BOARD, COMPLETE (Thailand product)				
		**********				
*	A-4389-539-A	JOG BOARD, COMPLETE (Indonesia product)				
		**********				
		< CAPACITOR >				
C524	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C525	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C526	1-164-159-11	CERAMIC	0.1uF		50V	
C527	1-164-159-11	CERAMIC	0.1uF		50V	
		< DIODE >				
D508	8-719-058-17	DIODE LNJ401NPYJA (SONIC FORMATION)				
D509	8-719-057-30	DIODE HLMF-K205-2UL (ENTER/NEXT, MULTI JOG STATION)				

Ref. No.	Part No.	Description				Remark
D510	8-719-057-97	DIODE SEL5923A-TP15 (▶▶I, MULTI JOG STATION)				
D511	8-719-057-97	DIODE SEL5923A-TP15 (I◀◀, MULTI JOG STATION)				
D512	8-719-057-97	DIODE SEL5923A-TP15 (MULTI JOG STATION)				
D513	8-719-057-97	DIODE SEL5923A-TP15 (MULTI JOG STATION)				
D514	8-719-057-97	DIODE SEL5923A-TP15 (+, MULTI JOG STATION)				
D515	8-719-057-97	DIODE SEL5923A-TP15 (-, MULTI JOG STATION)				
		< TRANSISTOR >				
Q507	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q508	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q509	8-729-119-76	TRANSISTOR 2SA1175-HFE				
		< RESISTOR >				
R541	1-249-413-11	CARBON	470	5%	1/4W	F
R542	1-249-415-11	CARBON	680	5%	1/4W	F
R543	1-249-417-11	CARBON	1K	5%	1/4W	F
R544	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R545	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R546	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R588	1-247-807-31	CARBON	100	5%	1/4W	
R589	1-247-815-91	CARBON	220	5%	1/4W	
R590	1-247-807-31	CARBON	100	5%	1/4W	
R591	1-247-807-31	CARBON	100	5%	1/4W	
R592	1-247-807-31	CARBON	100	5%	1/4W	
R593	1-247-807-31	CARBON	100	5%	1/4W	
R594	1-247-807-31	CARBON	100	5%	1/4W	
R595	1-247-807-31	CARBON	100	5%	1/4W	
		< SWITCH >				
S524	1-554-303-21	SWITCH, TACTILE (DBFB)				
S526	1-554-303-21	SWITCH, TACTILE (SONIC FORMATION)				
S527	1-554-303-21	SWITCH, TACTILE (FREQUENCY +)				
S528	1-554-303-21	SWITCH, TACTILE (ENTER/NEXT)				
S529	1-554-303-21	SWITCH, TACTILE (FREQUENCY -)				
S561	1-467-869-11	ENCODER, ROTARY (VOLUME)				
S562	1-467-968-11	ENCODER, ROTARY (MULTI JOG STATION)				

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*	1-650-669-11	LEAF SWITCH BOARD	
		**********	
		< CONNECTOR >	
* CN1001	1-568-854-11	SOCKET, CONNECTOR 11P	
		< PHOTO REFLECTOR >	
Q1001	8-749-010-90	PHOTO REFLECTOR NJL5165KA-H2	
Q1002	8-749-010-90	PHOTO REFLECTOR NJL5165KA-H2	

Ref. No.	Part No.	Description				Remark
		< RESISTOR >				
R1001	1-247-818-11	CARBON	300	5%	1/4W	(Malaysia product)
R1001	1-249-412-11	CARBON	390	5%	1/4W	F (EXCEPT Malaysia product)
R1002	1-247-820-11	CARBON	360	5%	1/4W	(Malaysia product)
R1002	1-249-412-11	CARBON	390	5%	1/4W	F (EXCEPT Malaysia product)
R1003	1-249-414-11	CARBON	560	5%	1/4WF	
R1004	1-247-834-11	CARBON	1.3K	5%	1/4W	
R1005	1-247-818-11	CARBON	300	5%	1/4W	
		< SWITCH >				
S1001	1-692-832-11	SWITCH, PUSH (1 KEY) (A PLAY)				
S1002	1-692-832-11	SWITCH, PUSH (1 KEY) (B PLAY)				
S1003	1-572-248-11	SWITCH, LEAF (A HALF)				
S1004	1-571-281-21	SWITCH, LEAF (A CrO2)				
S1005	1-571-281-21	SWITCH, LEAF (REC A)				
S1006	1-572-248-11	SWITCH, LEAF (B HALF)				
S1008	1-571-281-21	SWITCH, LEAF (B CrO2)				
S1009	1-571-281-21	SWITCH, LEAF (REC B)				

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*	A-4389-549-A	MAIN BOARD, COMPLETE (AEP, UK)	
		**********	
*	A-4389-560-A	MAIN BOARD, COMPLETE (US, CND)	
		**********	
*	A-4389-563-A	MAIN BOARD, COMPLETE (E2, AR)	
		**********	
*	A-4389-570-A	MAIN BOARD, COMPLETE (E3, SP, HK, IA, PX)	
		**********	
*	A-4389-980-A	MAIN BOARD, COMPLETE (TH)	
		**********	
*	A-4390-003-A	MAIN BOARD, COMPLETE (EA, MY)	
		**********	
*	A-4390-012-A	MAIN BOARD, COMPLETE (G, IT)	
		**********	
*	A-4390-014-A	MAIN BOARD, COMPLETE (AUS)	
		**********	
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
		< CAPACITOR >	
C201	1-124-925-11	ELECT	2.2uF 20% 100V
C202	1-130-479-00	MYLAR	0.0047uF 5% 50V
C203	1-126-925-11	ELECT	470uF 20% 10V

MAIN

Ref. No.	Part No.	Description			Remark
C204	1-126-933-11	ELECT	100uF	20%	10V
C205	1-164-159-21	CERAMIC	0.1uF		50V
C211	1-124-925-11	ELECT	2.2uF	20%	100V
C212	1-130-479-00	MYLAR	0.0047uF	5%	50V
C250	1-162-306-11	CERAMIC	0.01uF	20%	16V
					(AEP, UK, G, IT)
C251	1-164-035-11	CERAMIC	47PF	5%	50V
					(AEP, UK, G, IT)
C252	1-102-527-11	CERAMIC	82PF	5%	50V
					(AEP, UK, G, IT)
C253	1-162-291-31	CERAMIC	560PF	10%	50V
					(AEP, UK, G, IT)
C254	1-162-306-11	CERAMIC	0.01uF	20%	16V
					(AEP, UK, G, IT)
C255	1-162-288-31	CERAMIC	330PF	10%	50V
					(AEP, UK, G, IT)
C256	1-124-925-11	ELECT	2.2uF	20%	100V
					(AEP, UK, G, IT)
C257	1-126-964-11	ELECT	10uF	20%	50V
					(AEP, UK, G, IT)
C258	1-162-291-31	CERAMIC	560PF	10%	50V
					(AEP, UK, G, IT)
C259	1-126-964-11	ELECT	10uF	20%	50V
					(AEP, UK, G, IT)
C260	1-164-159-21	CERAMIC	0.1uF		50V
					(AEP, UK, G, IT)
C261	1-126-967-11	ELECT	47uF	20%	16V
					(AEP, UK, G, IT)
C263	1-162-294-11	CERAMIC	0.001uF	10%	50V
C301	1-130-479-00	MYLAR	0.0047uF	5%	50V
C302	1-162-290-31	CERAMIC	470PF	10%	50V
C303	1-136-165-00	FILM	0.1uF	5%	50V
C305	1-124-903-11	ELECT	1uF	20%	50V
C306	1-124-902-00	ELECT	0.47uF	20%	50V
C307	1-126-964-11	ELECT	10uF	20%	50V
C308	1-126-964-11	ELECT	10uF	20%	50V
C309	1-124-903-11	ELECT	1uF	20%	50V
C310	1-126-933-11	ELECT	100uF	20%	10V
C351	1-130-479-00	MYLAR	0.0047uF	5%	50V
C352	1-162-290-31	CERAMIC	470PF	10%	50V
C353	1-136-165-00	FILM	0.1uF	5%	50V
C355	1-124-903-11	ELECT	1uF	20%	50V
C356	1-124-902-00	ELECT	0.47uF	20%	50V
C357	1-126-964-11	ELECT	10uF	20%	50V
C358	1-126-964-11	ELECT	10uF	20%	50V
C359	1-124-903-11	ELECT	1uF	20%	50V
C360	1-126-933-11	ELECT	100uF	20%	10V
C401	1-164-159-21	CERAMIC	0.1uF		50V
C402	1-164-159-21	CERAMIC	0.1uF		50V
C403	1-164-159-21	CERAMIC	0.1uF		50V
C404	1-126-933-11	ELECT	100uF	20%	16V
C701	1-162-282-31	CERAMIC	100PF	10%	50V

Ref. No.	Part No.	Description			Remark
C702	1-126-926-11	ELECT	1000uF	20%	10V
C703	1-126-964-11	ELECT	10uF	20%	50V
C704	1-136-165-00	FILM	0.1uF	5%	50V
C705	1-136-165-00	FILM	0.1uF	5%	50V
C706	1-126-965-11	ELECT	22uF	20%	50V
C707	1-162-204-31	CERAMIC	16PF	5%	50V
C708	1-162-204-31	CERAMIC	16PF	5%	50V
C710	1-164-159-21	CERAMIC	0.1uF		50V
C711	1-164-159-21	CERAMIC	0.1uF		50V
C715	1-162-294-31	CERAMIC	0.001uF	10%	50V
C810	1-162-306-11	CERAMIC	0.01uF	30%	16V
C811	1-162-306-11	CERAMIC	0.01uF	30%	16V
C821	1-162-286-21	CERAMIC	220PF	10%	50V
C822	1-162-286-21	CERAMIC	220PF	10%	50V
C825	1-109-889-11	ELECT	1uF	20%	50V
C827	1-162-306-11	CERAMIC	0.01uF	30%	16V
C828	1-162-306-11	CERAMIC	0.01uF	30%	16V
C829	1-162-292-31	CERAMIC	680PF	10%	50V
C830	1-126-964-11	ELECT	10uF	20%	50V
C831	1-162-286-21	CERAMIC	220PF	10%	50V
C871	1-162-286-21	CERAMIC	220PF	10%	50V
C872	1-162-286-21	CERAMIC	220PF	10%	50V
C875	1-162-294-31	CERAMIC	0.001uF	10%	50V
C901	1-124-464-11	ELECT	0.22uF	20%	50V
C902	1-124-464-11	ELECT	0.22uF	20%	50V
C903	1-136-495-11	FILM	0.068uF	5%	50V
C904	1-136-495-11	FILM	0.068uF	5%	50V
C905	1-136-156-00	FILM	0.018uF	5%	50V
C906	1-136-156-00	FILM	0.018uF	5%	50V
C907	1-130-480-00	MYLAR	0.0056uF	5%	50V
C908	1-130-479-00	MYLAR	0.0047uF	5%	50V
C909	1-130-474-00	MYLAR	0.0018uF	5%	50V
C910	1-126-964-11	ELECT	10uF	20%	50V
C911	1-126-964-11	ELECT	10uF	20%	50V
C912	1-136-167-00	FILM	0.15uF	5%	50V
C913	1-136-167-00	FILM	0.15uF	5%	50V
C914	1-126-964-11	ELECT	10uF	20%	50V
C915	1-136-154-00	FILM	0.012uF	5%	50V
C930	1-136-167-00	FILM	0.15uF	5%	50V
C931	1-130-471-00	MYLAR	0.001uF	5%	50V
C934	1-126-933-11	ELECT	100uF	20%	10V
C935	1-164-159-21	CERAMIC	0.1uF		50V
C937	1-126-964-11	ELECT	10uF	20%	50V
C938	1-162-286-21	CERAMIC	220PF	10%	50V
C939	1-162-306-11	CERAMIC	0.01uF	30%	16V
C941	1-162-306-11	CERAMIC	0.01uF	30%	16V
C942	1-126-933-11	ELECT	100uF	20%	10V
C943	1-162-306-11	CERAMIC	0.01uF	30%	16V
C944	1-126-964-11	ELECT	10uF	20%	50V
C945	1-126-964-11	ELECT	10uF	20%	50V

Ref. No.	Part No.	Description			Remark
C947	1-162-306-11	CERAMIC	0.01uF	30%	16V
C948	1-126-964-11	ELECT	10uF	20%	50V
C951	1-124-464-11	ELECT	0.22uF	20%	50V
C952	1-124-464-11	ELECT	0.22uF	20%	50V
C953	1-136-495-11	FILM	0.068uF	5%	50V
C954	1-136-495-11	FILM	0.068uF	5%	50V
C955	1-136-156-00	FILM	0.018uF	5%	50V
C956	1-136-156-00	FILM	0.018uF	5%	50V
C957	1-130-480-00	MYLAR	0.0056uF	5%	50V
C958	1-130-479-00	MYLAR	0.0047uF	5%	50V
C959	1-130-474-00	MYLAR	0.0018uF	5%	50V
C960	1-126-964-11	ELECT	10uF	20%	50V
C961	1-126-964-11	ELECT	10uF	20%	50V
C962	1-136-167-00	FILM	0.15uF	5%	50V
C963	1-136-167-00	FILM	0.15uF	5%	50V
C964	1-126-964-11	ELECT	10uF	20%	50V
C965	1-136-154-00	FILM	0.012uF	5%	50V
C1001	1-126-946-11	ELECT	6800uF	20%	25V
C1002	1-126-943-11	ELECT	2200uF	20%	25V
C1004	1-126-926-11	ELECT	1000uF	20%	10V
C1005	1-126-964-11	ELECT	10uF	20%	50V
C1006	1-126-933-11	ELECT	100uF	20%	10V
C1007	1-126-933-11	ELECT	100uF	20%	10V
C1008	1-126-952-11	ELECT	1000uF	20%	16V
C1009	1-162-294-31	CERAMIC	0.001uF	10%	50V
C1010	1-164-159-21	CERAMIC	0.1uF		50V
C1011	1-164-159-21	CERAMIC	0.1uF		50V
C1012	1-126-964-11	ELECT	10uF	20%	50V
C1013	1-126-916-11	ELECT	1000uF	20%	6.3V
C1014	1-164-159-21	CERAMIC	0.1uF		50V
C1015	1-164-159-21	CERAMIC	0.1uF		50V
C1016	1-126-925-11	ELECT	470uF	20%	10V
C1017	1-126-925-11	ELECT	470uF	20%	10V
C1018	1-126-943-11	ELECT	2200uF	20%	25V
C1019	1-126-934-11	ELECT	220uF	20%	16V
C1020	1-126-947-11	ELECT	47uF	20%	35V
C1021	1-162-294-31	CERAMIC	1000PF	10%	50V
C1022	1-126-969-11	ELECT	220uF	20%	50V
C1023	1-126-969-11	ELECT	220uF	20%	50V
C1024	1-126-964-11	ELECT	10uF	20%	50V
C1025	1-126-964-11	ELECT	10uF	20%	50V
C1026	1-126-952-11	ELECT	1000uF	20%	16V
C1051	1-162-306-11	CERAMIC	0.01uF	30%	16V
C1101	1-136-167-00	FILM	0.15uF	5%	50V
C1102	1-136-167-00	FILM	0.15uF	5%	50V
C1103	1-126-962-11	ELECT	3.3uF	20%	50V
C1104	1-126-962-11	ELECT	3.3uF	20%	50V
C1105	1-136-167-00	FILM	0.15uF	5%	50V
C1106	1-136-167-00	FILM	0.15uF	5%	50V
C1107	1-126-963-11	ELECT	4.7uF	20%	50V
C1108	1-126-963-11	ELECT	4.7uF	20%	50V
C1109	1-124-902-00	ELECT	0.47uF	20%	50V
C1110	1-124-902-00	ELECT	0.47uF	20%	50V
C1111	1-126-963-11	ELECT	4.7uF	20%	50V
C1112	1-126-963-11	ELECT	4.7uF	20%	50V
C1113	1-124-902-00	ELECT	0.47uF	20%	50V
C1114	1-124-902-00	ELECT	0.47uF	20%	50V
C1115	1-136-165-00	FILM	0.1uF	5%	50V
C1116	1-136-165-00	FILM	0.1uF	5%	50V
C1117	1-136-165-00	FILM	0.1uF	5%	50V
C1118	1-136-165-00	FILM	0.1uF	5%	50V
C1119	1-126-964-11	ELECT	10uF	20%	50V
C1120	1-126-964-11	ELECT	10uF	20%	50V
C1121	1-126-923-11	ELECT	220uF	20%	10V
C1122	1-126-964-11	ELECT	10uF	20%	50V
C1123	1-126-964-11	ELECT	10uF	20%	50V
C1124	1-126-964-11	ELECT	10uF	20%	50V
C1125	1-126-964-11	ELECT	10uF	20%	50V
C1126	1-126-923-11	ELECT	220uF	20%	10V
C1127	1-136-161-00	FILM	0.047uF	5%	50V
C1128	1-136-157-00	FILM	0.022uF	5%	50V
C1129	1-162-292-31	CERAMIC	680PF	10%	50V
C1130	1-126-933-11	ELECT	100uF	20%	10V
C1131	1-162-306-11	CERAMIC	0.01uF	30%	16V
C1132	1-126-964-11	ELECT	10uF	20%	50V
C1133	1-136-173-00	FILM	0.47uF	5%	50V
C1134	1-104-664-11	ELECT	47uF	20%	25V
C1135	1-130-467-00	MYLAR	470PF	5%	50V
C1136	1-130-467-00	MYLAR	470PF	5%	50V
C1137	1-162-306-11	CERAMIC	0.01uF	30%	16V
C1138	1-162-306-11	CERAMIC	0.01uF	30%	16V
C1141	1-126-964-11	ELECT	10uF	20%	50V
C1142	1-136-159-00	FILM	0.033uF	5%	50V
C1143	1-162-306-11	CERAMIC	0.01uF	30%	16V
C1144	1-126-933-11	ELECT	100uF	20%	10V
C1145	1-124-925-11	ELECT	2.2uF	20%	100V
C1146	1-162-286-21	CERAMIC	220PF	10%	50V
C1147	1-162-306-11	CERAMIC	0.01uF	30%	16V
C1148	1-126-923-11	ELECT	220uF	20%	10V
C1149	1-136-159-00	FILM	0.033uF	5%	50V
C1150	1-130-473-00	MYLAR	0.0015uF	5%	50V
C1151	1-136-159-00	FILM	0.033uF	5%	50V
C1152	1-124-903-11	ELECT	1uF	20%	50V
C1153	1-126-923-11	ELECT	220uF	20%	10V
C1154	1-126-964-11	ELECT	10uF	20%	50V
C1155	1-126-964-11	ELECT	10uF	20%	50V
C1156	1-126-964-11	ELECT	10uF	20%	50V
C1157	1-162-306-11	CERAMIC	0.01uF	30%	16V
C1158	1-162-286-21	CERAMIC	220PF	10%	50V
C1160	1-126-964-11	ELECT	10uF	20%	50V

MAIN

Ref. No.	Part No.	Description			Remark
C1161	1-162-294-31	CERAMIC	0.001uF	10%	50V
C1162	1-126-964-11	ELECT	10uF	20%	50V
C1163	1-162-294-31	CERAMIC	0.001uF	10%	50V
C1164	1-126-964-11	ELECT	10uF	20%	50V
C1165	1-126-964-11	ELECT	10uF	20%	50V
C1166	1-126-964-11	ELECT	10uF	20%	50V
C1167	1-126-964-11	ELECT	10uF	20%	50V
C1168	1-162-286-21	CERAMIC	220PF	10%	50V
C1169	1-109-889-11	ELECT	1uF	20%	50V
C1178	1-162-294-11	CERAMIC	0.001uF	10%	50V
C9001	1-162-306-11	CERAMIC	0.01uF	30%	16V
C9002	1-162-306-11	CERAMIC	0.01uF	30%	16V
C9003	1-162-294-11	CERAMIC	0.001uF	10%	50V
C9004	1-162-294-11	CERAMIC	0.001uF	10%	50V
C9005	1-162-282-31	CERAMIC	100PF	10%	50V
C9006	1-164-159-21	CERAMIC	0.1uF		50V
C9007	1-162-294-11	CERAMIC	0.001uF	10%	50V
C9008	1-162-294-11	CERAMIC	0.001uF	10%	50V
		< CONNECTOR >			
CN201	1-770-067-11	CONNECTOR, FFC/FPC 19P			
* CN202	1-568-936-21	PIN, CONNECTOR 9P			
* CN203	1-568-935-11	PIN, CONNECTOR 8P			
* CN250	1-568-834-11	SOCKET, CONNECTOR 15P (AEP, UK, G, IT, EA, HK, SP, MY, PX, IA, E3)			
* CN250	1-568-832-11	SOCKET, CONNECTOR 13P (US, CND, TH, AUS, AR, E2)			
CN401	1-568-838-11	SOCKET, CONNECTOR 21P			
* CN402	1-568-830-11	SOCKET, CONNECTOR 11P			
* CN403	1-568-449-11	HOUSING, CONNECTOR (PC BOARD) 3P			
* CN701	1-568-832-11	SOCKET, CONNECTOR 13P			
* CN1001	1-770-734-11	CONNECTOR, BOARD TO BOARD 20P			
CN1051	1-564-517-11	PLUG, CONNECTOR 2P			
		< DIODE >			
D201	8-719-987-63	DIODE 1N4148M			
D202	8-719-987-63	DIODE 1N4148M			
D251	8-719-987-63	DIODE 1N4148M (AEP, UK, G, IT)			
D401	8-719-933-54	DIODE HZS9A2L			
D701	8-719-987-63	DIODE 1N4148M			
D702	8-719-987-63	DIODE 1N4148M			
D703	8-719-987-63	DIODE 1N4148M			
D704	8-719-987-63	DIODE 1N4148M			
D705	8-719-987-63	DIODE 1N4148M			
D706	8-719-024-99	DIODE 11ES2-NTA2B (EA, MY)			
D706	8-719-200-82	DIODE 11ES2 (EXCEPT EA, MY)			
D707	8-719-987-63	DIODE 1N4148M			
D708	8-719-987-63	DIODE 1N4148M			
D711	8-719-024-99	DIODE 11ES2-NTA2B (EA, MY)			
D711	8-719-200-82	DIODE 11ES2 (EXCEPT EA, MY)			

Ref. No.	Part No.	Description	Remark
D901	8-719-987-63	DIODE 1N4148M	
D902	8-719-987-63	DIODE 1N4148M	
D1001	8-719-024-99	DIODE 11ES2-NTA2B (EA, MY)	
D1001	8-719-200-82	DIODE 11ES2 (EXCEPT EA, MY)	
D1002	8-719-024-99	DIODE 11ES2-NTA2B (EA, MY)	
D1002	8-719-200-82	DIODE 11ES2 (EXCEPT EA, MY)	
D1003	8-719-028-23	DIODE D3SBA20-4101	
D1007	8-719-987-63	DIODE 1N4148M	
D1008	8-719-001-42	DIODE UZL-11M1 (EA, MY)	
D1008	8-719-001-43	DIODE UZL-11M1-TA (EXCEPT EA, MY)	
D1009	8-719-987-63	DIODE 1N4148M	
D1010	8-719-987-63	DIODE 1N4148M	
D1011	8-719-010-43	DIODE UZ-5.6BSC	
D1012	8-719-934-22	DIODE HZS30-2L	
D1013	8-719-024-99	DIODE 11ES2-NTA2B (EA, MY)	
D1013	8-719-200-82	DIODE 11ES2 (EXCEPT EA, MY)	
D1014	8-719-024-99	DIODE 11ES2-NTA2B (EA, MY)	
D1014	8-719-200-82	DIODE 11ES2 (EXCEPT EA, MY)	
D1015	8-719-024-99	DIODE 11ES2-NTA2B (EA, MY)	
D1015	8-719-200-82	DIODE 11ES2 (EXCEPT EA, MY)	
D1016	8-719-024-99	DIODE 11ES2-NTA2B (EA, MY)	
D1016	8-719-200-82	DIODE 11ES2 (EXCEPT EA, MY)	
D1017	8-719-024-99	DIODE 11ES2-NTA2B (EA, MY)	
D1017	8-719-200-82	DIODE 11ES2 (EXCEPT EA, MY)	
D1018	8-719-024-99	DIODE 11ES2-NTA2B (EA, MY)	
D1018	8-719-200-82	DIODE 11ES2 (EXCEPT EA, MY)	
D1019	8-719-024-99	DIODE 11ES2-NTA2B (EA, MY)	
D1019	8-719-200-82	DIODE 11ES2 (EXCEPT EA, MY)	
		< GROUND TERMINAL >	
EPT901	1-537-770-21	TERMINAL BOARD, GROUND	
		< FERRITE BEAD >	
FB9001	1-412-473-21	INDUCTOR, FERRITE BEAD	
		< IC >	
IC201	8-749-923-04	IC TOTX178 (CD DIGITAL OUT OPTICAL)	
IC250	8-759-169-99	IC SAA6579 (AEP, UK, G, IT)	
IC251	8-759-634-51	IC M5218ACD, (AEP, UK, G, IT)	
IC401	8-759-289-38	IC HA12195NT	
IC402	8-759-822-09	IC LB1641	
IC701	8-759-398-86	IC TMP87CS64YF-6417	
IC702	8-759-165-80	IC PST600C-T	
IC802	8-759-000-48	IC MC14052BCP	
IC805	8-759-634-51	IC M5218AP	
IC901	8-759-331-39	IC M62427FP	
IC902	8-759-634-51	IC M5218AP	
IC1001	8-759-231-53	IC TA7805S	
IC1002	8-759-604-86	IC M5F7807	
IC1003	8-759-604-86	IC M5F7807	

Ref. No.	Part No.	Description	Remark
IC1004	8-759-604-90	IC M5F7907L	
IC1101	8-759-248-74	IC LA2785	
IC1102	8-759-341-23	IC LV1011	
IC1103	8-759-634-51	IC M5218AP	
IC1104	8-759-281-42	IC TC9210P	
		< JACK >	
J801	1-695-188-31	JACK, PIN 4P (VIDEO/MD, IN, OUT)	
J802	1-774-785-11	JACK, PIN 1P (SUPER WOOFER)	
		< COIL >	
L201	1-410-521-11	INDUCTOR 100uH	
L250	1-410-521-11	INDUCTOR 100uH (AEP, UK, G, IT)	
L701	1-410-521-11	INDUCTOR 100uH	
L702	1-410-521-11	INDUCTOR 100uH	
L703	1-410-521-11	INDUCTOR 100uH	
L704	1-410-521-11	INDUCTOR 100uH	
L1101	1-410-509-11	INDUCTOR 10uH	
L1102	1-410-509-11	INDUCTOR 10uH	
L1104	1-410-509-11	INDUCTOR 10uH	
		< TRANSISTOR >	
Q301	8-729-119-78	TRANSISTOR 2SC2785HFE	
Q351	8-729-119-78	TRANSISTOR 2SC2785HFE	
Q401	8-729-119-78	TRANSISTOR 2SC2785HFE	
Q402	8-729-900-65	TRANSISTOR DTA144ES	
Q403	8-729-801-93	TRANSISTOR 2SD1387	
Q406	8-729-900-80	TRANSISTOR DTC114ES	
Q407	8-729-422-57	TRANSISTOR UN4111	
Q408	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q409	8-729-900-80	TRANSISTOR DTC114ES	
Q410	8-729-900-65	TRANSISTOR DTA144ES	
Q411	8-729-900-65	TRANSISTOR DTA144ES	
Q412	8-729-900-65	TRANSISTOR DTA144ES	
Q701	8-729-119-78	TRANSISTOR 2SC2785HFE	
Q820	8-729-422-57	TRANSISTOR UN4111	
Q821	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q822	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q823	8-729-422-57	TRANSISTOR UN4111	
Q824	8-729-900-80	TRANSISTOR DTC114ES	
Q830	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q901	8-729-119-78	TRANSISTOR 2SC2785HFE	
Q902	8-729-119-78	TRANSISTOR 2SC2785HFE	
Q951	8-729-119-78	TRANSISTOR 2SC2785HFE	
Q952	8-729-119-78	TRANSISTOR 2SC2785HFE	
Q953	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q954	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q1001	8-729-118-01	TRANSISTOR 2SB1116	
Q1002	8-729-900-36	TRANSISTOR DTC124ES	
Q1003	8-729-021-82	TRANSISTOR 2SD2396K	
Q1006	8-729-118-01	TRANSISTOR 2SB1116	
Q1051	8-729-111-29	TRANSISTOR 2SD1616A-K	
Q1052	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1101	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q1102	8-729-141-26	TRANSISTOR 2SC3622A-LK	
		< RESISTOR >	
R201	1-249-415-11	CARBON 680 5% 1/4W	F
R202	1-249-435-11	CARBON 33K 5% 1/4W	
R211	1-249-415-11	CARBON 680 5% 1/4W	F
R212	1-249-435-11	CARBON 33K 5% 1/4W	
R215	1-247-807-31	CARBON 100 5% 1/4W	
R250	1-249-421-11	CARBON 2.2K 5% 1/4W	F (AEP, UK, G, IT)
R251	1-249-401-11	CARBON 47 5% 1/4W	F (AEP, UK, G, IT)
R252	1-249-441-11	CARBON 100K 5% 1/4W	(AEP, UK, G, IT)
R253	1-249-441-11	CARBON 100K 5% 1/4W	(AEP, UK, G, IT)
R254	1-249-426-11	CARBON 5.6K 5% 1/4W	(AEP, UK, G, IT)
R255	1-249-429-11	CARBON 10K 5% 1/4W	(AEP, UK, G, IT)
R256	1-247-807-31	CARBON 100 5% 1/4W	(AEP, UK, G, IT)
R301	1-249-430-11	CARBON 12K 5% 1/4W	
R302	1-249-431-11	CARBON 15K 5% 1/4W	
R303	1-249-432-11	CARBON 18K 5% 1/4W	
R304	1-249-428-11	CARBON 8.2K 5% 1/4W	F
R305	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R306	1-247-840-00	CARBON 2.4K 5% 1/4W	
R307	1-247-863-91	CARBON 22K 5% 1/4W	
R308	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R309	1-249-428-11	CARBON 8.2K 5% 1/4W	F
R310	1-249-417-11	CARBON 1K 5% 1/4W	F
R351	1-249-430-11	CARBON 12K 5% 1/4W	
R352	1-249-431-11	CARBON 15K 5% 1/4W	
R354	1-249-428-11	CARBON 8.2K 5% 1/4W	F
R355	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R356	1-247-840-00	CARBON 2.4K 5% 1/4W	
R357	1-247-863-91	CARBON 22K 5% 1/4W	
R358	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R359	1-249-428-11	CARBON 8.2K 5% 1/4W	F
R360	1-249-417-11	CARBON 1K 5% 1/4W	F
R401	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R402	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R403	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R404	1-249-417-11	CARBON 1K 5% 1/4W	F
R405	1-249-437-11	CARBON 47K 5% 1/4W	
R406	1-249-437-11	CARBON 47K 5% 1/4W	

MAIN

Ref. No.	Part No.	Description			Remark
R407	1-249-437-11	CARBON	47K	5%	1/4W
R408	1-249-437-11	CARBON	47K	5%	1/4W
R409	1-249-429-11	CARBON	10K	5%	1/4W
R410	1-247-882-11	CARBON	130K	5%	1/4W
R411	1-247-866-11	CARBON	30K	5%	1/4W
R412	1-249-429-11	CARBON	10K	5%	1/4W
R413	1-247-864-11	CARBON	24K	5%	1/4W
R414	1-249-429-11	CARBON	10K	5%	1/4W
R415	1-249-429-11	CARBON	10K	5%	1/4W
R416	1-249-429-11	CARBON	10K	5%	1/4W
R417	1-249-429-11	CARBON	10K	5%	1/4W
R418	1-249-429-11	CARBON	10K	5%	1/4W
R419	1-249-429-11	CARBON	10K	5%	1/4W
R420	1-249-429-11	CARBON	10K	5%	1/4W
R421	1-249-429-11	CARBON	10K	5%	1/4W
R454	1-249-425-11	CARBON	4.7K	5%	1/4W F (EA, MY)
R454	1-247-863-91	CARBON	22K	5%	1/4W (EXCEPT EA, MY)
R455	1-249-425-11	CARBON	4.7K	5%	1/4W F (EA, MY)
R455	1-247-863-91	CARBON	22K	5%	1/4W (EXCEPT EA, MY)
R456	1-249-411-11	CARBON	330	5%	1/4W
R457	1-249-427-11	CARBON	6.8K	5%	1/4W F
R458	1-249-429-11	CARBON	10K	5%	1/4W
R461	1-249-417-11	CARBON	1K	5%	1/4W F
R701	1-249-429-11	CARBON	10K	5%	1/4W
R702	1-249-417-11	CARBON	1K	5%	1/4W F
R703	1-249-429-11	CARBON	10K	5%	1/4W
R705	1-249-429-11	CARBON	10K	5%	1/4W
R707	1-249-429-11	CARBON	10K	5%	1/4W
R708	1-247-807-31	CARBON	100	5%	1/4W
R709	1-249-429-11	CARBON	10K	5%	1/4W
R710	1-247-807-31	CARBON	100	5%	1/4W
R711	1-249-429-11	CARBON	10K	5%	1/4W
R713	1-247-807-31	CARBON	100	5%	1/4W
R714	1-249-429-11	CARBON	10K	5%	1/4W
R715	1-247-807-31	CARBON	100	5%	1/4W
R716	1-247-807-31	CARBON	100	5%	1/4W
R717	1-247-807-31	CARBON	100	5%	1/4W
R718	1-247-807-31	CARBON	100	5%	1/4W
R719	1-247-807-31	CARBON	100	5%	1/4W
R720	1-247-807-31	CARBON	100	5%	1/4W
R721	1-247-807-31	CARBON	100	5%	1/4W
R722	1-247-807-31	CARBON	100	5%	1/4W (AEP, UK, G, IT)
R723	1-247-807-31	CARBON	100	5%	1/4W (AEP, UK, G, IT)
R724	1-247-807-31	CARBON	100	5%	1/4W
R725	1-247-807-31	CARBON	100	5%	1/4W
R726	1-247-807-31	CARBON	100	5%	1/4W

Ref. No.	Part No.	Description			Remark
R727	1-247-807-31	CARBON	100	5%	1/4W
R728	1-247-807-31	CARBON	100	5%	1/4W
R729	1-247-807-31	CARBON	100	5%	1/4W
R730	1-247-807-31	CARBON	100	5%	1/4W
R731	1-247-807-31	CARBON	100	5%	1/4W
R732	1-247-807-31	CARBON	100	5%	1/4W
R733	1-247-807-31	CARBON	100	5%	1/4W
R734	1-247-807-31	CARBON	100	5%	1/4W
R735	1-247-807-31	CARBON	100	5%	1/4W
R736	1-247-807-31	CARBON	100	5%	1/4W
R737	1-247-807-31	CARBON	100	5%	1/4W
R738	1-249-415-11	CARBON	680	5%	1/4W F
R739	1-249-431-11	CARBON	15K	5%	1/4W
R740	1-249-429-11	CARBON	10K	5%	1/4W (AEP, UK)
R740	1-249-425-11	CARBON	4.7K	5%	1/4W F (E2, AR, TH)
R740	1-247-863-91	CARBON	22K	5%	1/4W (AUS)
R740	1-249-427-11	CARBON	6.8K	5%	1/4W F (G, IT)
R741	1-249-423-11	CARBON	3.3K	5%	1/4W F (AEP, UK, G, IT)
R741	1-249-427-11	CARBON	6.8K	5%	1/4W F (E2, AR, TH)
R741	1-247-863-91	CARBON	22K	5%	1/4W (AUS)
R742	1-249-413-11	CARBON	470	5%	1/4W F
R743	1-247-807-31	CARBON	100	5%	1/4W
R744	1-247-807-31	CARBON	100	5%	1/4W
R745	1-247-807-31	CARBON	100	5%	1/4W
R746	1-247-807-31	CARBON	100	5%	1/4W
R747	1-247-807-31	CARBON	100	5%	1/4W
R748	1-247-807-31	CARBON	100	5%	1/4W
R749	1-247-807-31	CARBON	100	5%	1/4W
R752	1-249-417-11	CARBON	1K	5%	1/4W F
R753	1-249-417-11	CARBON	1K	5%	1/4W F
R754	1-249-417-11	CARBON	1K	5%	1/4W F
R757	1-249-429-11	CARBON	10K	5%	1/4W
R758	1-249-429-11	CARBON	10K	5%	1/4W
R759	1-249-429-11	CARBON	10K	5%	1/4W
R763	1-249-429-11	CARBON	10K	5%	1/4W
R764	1-247-807-31	CARBON	100	5%	1/4W
R771	1-247-807-31	CARBON	100	5%	1/4W
R772	1-247-807-31	CARBON	100	5%	1/4W
R773	1-247-807-31	CARBON	100	5%	1/4W
R774	1-247-807-31	CARBON	100	5%	1/4W
R790	1-249-429-11	CARBON	10K	5%	1/4W
R791	1-249-437-11	CARBON	47K	5%	1/4W
R793	1-249-437-11	CARBON	47K	5%	1/4W
R794	1-247-807-31	CARBON	100	5%	1/4W
R795	1-249-429-11	CARBON	10K	5%	1/4W
R796	1-249-429-11	CARBON	10K	5%	1/4W

Ref. No.	Part No.	Description				Remark
R810	1-249-417-11	CARBON	1K	5%	1/4W	F
R811	1-249-417-11	CARBON	1K	5%	1/4W	F
R821	1-249-424-11	CARBON	3.9K	5%	1/4W	F
R822	1-247-887-00	CARBON	220K	5%	1/4W	
R823	1-249-417-11	CARBON	1K	5%	1/4W	F
R824	1-249-441-11	CARBON	100K	5%	1/4W	
R825	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R826	1-249-441-11	CARBON	100K	5%	1/4W	
R827	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R828	1-249-426-11	CARBON	5.6K	5%	1/4W	
R829	1-249-429-11	CARBON	10K	5%	1/4W	
R830	1-249-441-11	CARBON	100K	5%	1/4W	
R831	1-249-437-11	CARBON	47K	5%	1/4W	
R832	1-249-441-11	CARBON	100K	5%	1/4W	F
R833	1-249-429-11	CARBON	10K	5%	1/4W	
R835	1-249-417-11	CARBON	1K	5%	1/4W	F
R836	1-249-429-11	CARBON	10K	5%	1/4W	
R850	1-249-417-11	CARBON	1K	5%	1/4W	F
R870	1-249-441-11	CARBON	100K	5%	1/4W	
R871	1-249-424-11	CARBON	3.9K	5%	1/4W	F
R872	1-247-887-00	CARBON	220K	5%	1/4W	
R873	1-249-417-11	CARBON	1K	5%	1/4W	F
R874	1-249-441-11	CARBON	100K	5%	1/4W	
R878	1-249-426-11	CARBON	5.6K	5%	1/4W	
R879	1-249-429-11	CARBON	10K	5%	1/4W	
R901	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R902	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R903	1-249-437-11	CARBON	47K	5%	1/4W	
R904	1-249-437-11	CARBON	47K	5%	1/4W	
R905	1-249-441-11	CARBON	100K	5%	1/4W	
R906	1-247-903-00	CARBON	1M	5%	1/4W	
R907	1-249-441-11	CARBON	100K	5%	1/4W	
R908	1-249-429-11	CARBON	10K	5%	1/4W	
R909	1-249-417-11	CARBON	1K	5%	1/4W	F
R910	1-249-429-11	CARBON	10K	5%	1/4W	
R911	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R912	1-249-441-11	CARBON	100K	5%	1/4W	
R913	1-249-429-11	CARBON	10K	5%	1/4W	
R914	1-249-437-11	CARBON	47K	5%	1/4W	
R915	1-249-441-11	CARBON	100K	5%	1/4W	
R917	1-249-431-11	CARBON	15K	5%	1/4W	
R922	1-247-903-00	CARBON	1M	5%	1/4W	
R923	1-247-903-00	CARBON	1M	5%	1/4W	
R930	1-247-863-91	CARBON	22K	5%	1/4W	
R931	1-247-863-91	CARBON	22K	5%	1/4W	
R932	1-249-429-11	CARBON	10K	5%	1/4W	
R933	1-247-891-00	CARBON	330K	5%	1/4W	
R934	1-249-441-11	CARBON	100K	5%	1/4W	
R940	1-249-429-11	CARBON	10K	5%	1/4W	
R941	1-249-429-11	CARBON	10K	5%	1/4W	
R942	1-249-429-11	CARBON	10K	5%	1/4W	
R943	1-249-417-11	CARBON	1K	5%	1/4W	F
R944	1-249-417-11	CARBON	1K	5%	1/4W	F
R945	1-249-417-11	CARBON	1K	5%	1/4W	F
R951	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R952	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R953	1-249-437-11	CARBON	47K	5%	1/4W	
R954	1-249-437-11	CARBON	47K	5%	1/4W	
R955	1-249-441-11	CARBON	100K	5%	1/4W	
R956	1-247-903-00	CARBON	1M	5%	1/4W	
R957	1-249-441-11	CARBON	100K	5%	1/4W	F
R958	1-249-429-11	CARBON	10K	5%	1/4W	
R959	1-249-417-11	CARBON	1K	5%	1/4W	F
R960	1-249-429-11	CARBON	10K	5%	1/4W	
R961	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R962	1-249-441-11	CARBON	100K	5%	1/4W	
R963	1-249-429-11	CARBON	10K	5%	1/4W	
R964	1-249-437-11	CARBON	47K	5%	1/4W	
R965	1-249-441-11	CARBON	100K	5%	1/4W	
R967	1-249-431-11	CARBON	15K	5%	1/4W	
R973	1-247-903-00	CARBON	1M	5%	1/4W	
R1001	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R1002	1-247-815-91	CARBON	220	5%	1/4W	
R1003	1-249-417-11	CARBON	1K	5%	1/4W	F
R1004	1-249-417-11	CARBON	1K	5%	1/4W	F
⚠R1005	1-219-122-91	FUSIBLE	0.33	5%	1/4W	F
R1020	1-247-815-91	CARBON	220	5%	1/4W	
R1021	1-247-815-91	CARBON	220	5%	1/4W	
R1022	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R1023	1-249-417-11	CARBON	1K	5%	1/4W	F
⚠R1024	1-217-637-00	FUSIBLE	1	5%	1/4W	F
R1051	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1052	1-249-432-11	CARBON	18K	5%	1/4W	
R1053	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R1101	1-247-887-00	CARBON	220K	5%	1/4W	
R1102	1-247-887-00	CARBON	220K	5%	1/4W	
R1103	1-249-417-11	CARBON	1K	5%	1/4W	F
R1104	1-249-432-11	CARBON	18K	5%	1/4W	
R1105	1-249-417-11	CARBON	1K	5%	1/4W	F
R1115	1-249-441-11	CARBON	100K	5%	1/4W	
R1121	1-249-436-11	CARBON	39K	5%	1/4W	
R1122	1-249-436-11	CARBON	39K	5%	1/4W	
R1123	1-249-417-11	CARBON	1K	5%	1/4W	F
R1124	1-247-903-00	CARBON	1M	5%	1/4W	
R1125	1-249-411-11	CARBON	330	5%	1/4W	
R1126	1-249-417-11	CARBON	1K	5%	1/4W	F
R1127	1-249-417-11	CARBON	1K	5%	1/4W	F
R1128	1-249-417-11	CARBON	1K	5%	1/4W	F
R1130	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R1131	1-249-432-11	CARBON	18K	5%	1/4W	F

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

MAIN **MD**

Ref. No.	Part No.	Description				Remark
R1132	1-249-441-11	CARBON	100K	5%	1/4W	
R1133	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R1134	1-249-432-11	CARBON	18K	5%	1/4W	F
R1135	1-249-441-11	CARBON	100K	5%	1/4W	
R1136	1-249-437-11	CARBON	47K	5%	1/4W	
R1137	1-249-441-11	CARBON	100K	5%	1/4W	
R1138	1-249-441-11	CARBON	100K	5%	1/4W	
R1139	1-249-417-11	CARBON	1K	5%	1/4W	F
R1140	1-249-417-11	CARBON	1K	5%	1/4W	F
R1141	1-249-417-11	CARBON	1K	5%	1/4W	F
R1142	1-249-417-11	CARBON	1K	5%	1/4W	F
R1143	1-249-417-11	CARBON	1K	5%	1/4W	F
R1144	1-249-417-11	CARBON	1K	5%	1/4W	F
R1145	1-249-429-11	CARBON	10K	5%	1/4W	
R1146	1-249-429-11	CARBON	10K	5%	1/4W	
R1150	1-249-441-11	CARBON	100K	5%	1/4W	
R1151	1-249-417-11	CARBON	1K	5%	1/4W	F
		< VARIABLE RESISTOR >				
RV301	1-238-600-11	RES, ADJ, CARBON 10K				
RV351	1-238-600-11	RES, ADJ, CARBON 10K				
		< VIBRATOR >				
X81	1-579-900-21	VIBRATOR, CRYSTAL(4.332MHz) (AEP, UK, G, IT)				
X701	1-579-175-11	VIBRATOR, CERAMIC (10MHz)				
X702	1-567-098-41	VIBRATOR, CRYSTAL (32kHz)				
X1101	1-579-125-11	VIBRATOR, CERAMIC (8MHz)				
**********						
*	A-2007-435-A	MD BOARD, COMPLETE				
		**********				
		(including MOTOR board)				
		< CAPACITOR >				
C301	1-162-289-31	CERAMIC	390PF	10%	50V	
C302	1-126-968-11	ELECT	100uF	20%	6.3V	
C303	1-162-282-31	CERAMIC	100PF	10%	50V	
C304	1-107-715-11	ELECT	22uF	20%	16V	
C304	1-130-483-00	MYLAR	0.01uF	5%	50V	
C305	1-107-715-11	ELECT	22uF	20%	16V	
C311	1-162-289-31	CERAMIC	390PF	10%	50V	
C313	1-162-282-31	CERAMIC	100PF	10%	50V	
C314	1-130-487-00	MYLAR	0.022uF	5%	50V	
C315	1-126-233-11	ELECT	22uF	20%	50V	
C331	1-137-427-11	FILM	120PF	5%	50V	
C332	1-162-288-31	CERAMIC	330PF	10%	50V	
C333	1-162-209-31	CERAMIC	27PF	5%	50V	
C401	1-162-289-31	CERAMIC	390PF	10%	50V	
C402	1-126-968-11	ELECT	100uF	20%	6.3V	
C403	1-162-282-31	CERAMIC	100PF	10%	50V	

Ref. No.	Part No.	Description				Remark
C404	1-130-483-00	MYLAR	0.01uF	5%	50V	
C411	1-162-289-31	CERAMIC	390PF	10%	50V	
C413	1-162-282-31	CERAMIC	100PF	10%	50V	
C414	1-130-487-00	MYLAR	0.022uF	5%	50V	
C415	1-126-233-11	ELECT	22uF	20%	50V	
C431	1-137-427-11	FILM	120PF	5%	50V	
C432	1-162-288-31	CERAMIC	330PF	10%	50V	
C433	1-162-209-31	CERAMIC	27PF	5%	50V	
C601	1-126-157-11	ELECT	10uF	20%	16V	
C602	1-126-157-11	ELECT	10uF	20%	16V	
C611	1-124-907-11	ELECT	10uF	20%	50V	
C612	1-124-907-11	ELECT	10uF	20%	50V	
C621	1-137-150-11	FILM	0.01uF	5%	100V	
C622	1-126-961-11	ELECT	2.2uF	20%	50V	
C623	1-136-155-00	FILM	0.015uF	5%	50V	
C624	1-130-481-00	MYLAR	0.0068uF	5%	50V	
C625	1-130-481-00	MYLAR	0.0068uF	5%	50V	
C627	1-124-903-11	ELECT	1uF	20%	50V	
C628	1-136-153-00	FILM	0.01uF	5%	50V	
C642	1-104-664-11	ELECT	47uF	20%	16V	
C651	1-161-494-00	CERAMIC	0.022uF		25V	
		< CONNECTOR >				
* CN601	1-568-864-11	SOCKET, CONNECTOR 21P				
* CN602	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P				
* CN651	1-564-521-11	PLUG, CONNECTOR 6P				
		< IC >				
IC601	8-759-710-59	IC NJM4580D-D				
IC602	8-759-143-54	IC uPC1330HA				
IC611	8-759-710-59	IC NJM4580D-D				
		< COIL >				
L331	1-410-780-11	INDUCTOR 27mH				
L431	1-410-780-11	INDUCTOR 27mH				
		< TRANSISTOR >				
Q621	8-729-142-46	TRANSISTOR 2SC2001-LK				
Q622	8-729-142-46	TRANSISTOR 2SC2001-LK				
Q623	8-729-030-18	TRANSISTOR 2SD2525				
Q651	8-729-900-65	TRANSISTOR DTA144ES				
		< RESISTOR >				
R301	1-247-881-00	CARBON	120K	5%	1/4W	
R302	1-249-409-11	CARBON	220	5%	1/4W	F
R303	1-249-433-11	CARBON	22K	5%	1/4W	
R304	1-247-889-00	CARBON	270K	5%	1/4W	
R305	1-247-858-11	CARBON	13K	5%	1/4W	
R311	1-247-881-00	CARBON	120K	5%	1/4W	
R312	1-247-807-31	CARBON	100	5%	1/4W	

Ref. No.	Part No.	Description				Remark
R314	1-247-882-11	CARBON	130K	5%	1/4W	
R315	1-247-850-11	CARBON	6.2K	5%	1/4W	
R331	1-249-430-11	CARBON	12K	5%	1/4W	
R401	1-247-881-00	CARBON	120K	5%	1/4W	
R402	1-249-409-11	CARBON	220	5%	1/4W	F
R403	1-249-433-11	CARBON	22K	5%	1/4W	
R404	1-247-889-00	CARBON	270K	5%	1/4W	
R405	1-247-858-11	CARBON	13K	5%	1/4W	
R411	1-247-881-00	CARBON	120K	5%	1/4W	
R412	1-247-807-31	CARBON	100	5%	1/4W	
R414	1-247-882-11	CARBON	130K	5%	1/4W	
R415	1-247-850-11	CARBON	6.2K	5%	1/4W	
R431	1-249-430-11	CARBON	12K	5%	1/4W	
R601	1-249-409-11	CARBON	220	5%	1/4W	F
R602	1-249-409-11	CARBON	220	5%	1/4W	F
R608	1-249-409-11	CARBON	220	5%	1/4W	F
R609	1-249-433-11	CARBON	22K	5%	1/4W	
R611	1-249-409-11	CARBON	220	5%	1/4W	F
R612	1-249-409-11	CARBON	220	5%	1/4W	F
⚠R621	1-212-851-00	FUSIBLE	5.6	5%	1/4W	F
⚠R622	1-212-851-00	FUSIBLE	5.6	5%	1/4W	F
R623	1-249-432-11	CARBON	18K	5%	1/4W	
R624	1-249-432-11	CARBON	18K	5%	1/4W	
R625	1-249-429-11	CARBON	10K	5%	1/4W	
R651	1-247-856-00	CARBON	11K	5%	1/4W	
R652	1-247-856-00	CARBON	11K	5%	1/4W	
R653	1-249-441-11	CARBON	100K	5%	1/4W	
		< VARIABLE RESISTOR >				
RV301	1-238-598-11	RES, ADJ, CARBON 2.2K				
RV311	1-238-598-11	RES, ADJ, CARBON 2.2K				
RV341	1-238-551-11	RES, ADJ, CARBON 220K				
RV401	1-238-598-11	RES, ADJ, CARBON 2.2K				
RV411	1-238-598-11	RES, ADJ, CARBON 2.2K				
RV441	1-238-551-11	RES, ADJ, CARBON 220K				
RV651	1-238-599-11	RES, ADJ, CARBON 4.7K				
RV652	1-238-599-11	RES, ADJ, CARBON 4.7K				
		< TRANSFORMER >				
T621	1-423-980-11	TRANSFORMER, BIAS OSCILLATION				

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*	1-658-578-11	MOTOR (SLIDE) BOARD				
		**********				
		< CAPACITOR >				
C801	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C804	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C805	1-124-907-11	ELECT	10uF	20%	50V	
					(Thailand product)	

Ref. No.	Part No.	Description				Remark
C805	1-126-964-11	ELECT	10uF	20%	50V	
					(EXCEPT Thailand product)	
		< CONNECTOR >				
* CN801	1-568-947-11	PIN, CONNECTOR 9P				
		< DIODE >				
D801	8-719-010-43	DIODE UZ-5.6BSC				
D804	8-719-987-63	DIODE 1N4148M				
D805	8-719-987-63	DIODE 1N4148M				
		< IC >				
IC801	8-759-274-09	IC BA6286N				
		< RESISTOR >				
R801	1-249-401-11	CARBON	47	5%	1/4W	F
		< SWITCH >				
S801	1-762-527-11	SWITCH, ROTARY (OPEN/CLOSE DET)				

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*	1-658-577-11	MOTOR (TURN) BOARD				
		**********				
		< CAPACITOR >				
C701	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C702	1-124-907-11	ELECT	10uF	20%	50V	
					(Thailand product)	
C702	1-126-964-11	ELECT	10uF	20%	50V	
					(EXCEPT Thailand product)	
C705	1-162-306-11	CERAMIC	0.01uF	30%	16V	
		< CONNECTOR >				
CN703	1-750-413-11	CONNECTOR, FFC/FPC 8P				
CN704	1-506-469-11	PIN, CONNECTOR 4P				
		< DIODE >				
D701	8-719-010-23	DIODE UZ-3.6BSB				
		< IC >				
IC701	8-759-633-65	IC M54641L				
		< RESISTOR >				
R706	1-249-411-11	CARBON	330	5%	1/4W	
R707	1-249-401-11	CARBON	47	5%	1/4W	F

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The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

PANEL

Ref. No.	Part No.	Description	Remark
*	A-4389-027-A	PANEL BOARD, COMPLETE (EA, MY) **********	
*	A-4389-360-A	PANEL BOARD, COMPLETE (TH) **********	
*	A-4389-538-A	PANEL BOARD, COMPLETE (AEP, UK, G, IT) **********	
*	A-4389-556-A	PANEL BOARD, COMPLETE (US, CND) **********	
*	A-4389-562-A	PANEL BOARD, COMPLETE (E2, AR) **********	
*	A-4389-565-A	PANEL BOARD, COMPLETE **********	(E3, HK, SP, AUS, IA, PX)
*	4-932-810-11	CUSHION (FL)	
	4-971-014-11	HOLDER, FL TUBE	
		< CAPACITOR >	
C500	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C501	1-126-154-11	ELECT 47uF 20% 6.3V	
C502	1-162-282-31	CERAMIC 100PF 10% 50V	
C504	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C505	1-126-154-11	ELECT 47uF 20% 6.3V	
C506	1-126-160-11	ELECT 1uF 20% 50V	
C507	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C508	1-126-160-11	ELECT 1uF 20% 50V	
C509	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C510	1-162-282-31	CERAMIC 100PF 10% 50V	
C511	1-162-282-31	CERAMIC 100PF 10% 50V	
C512	1-162-282-31	CERAMIC 100PF 10% 50V	
C513	1-162-282-31	CERAMIC 100PF 10% 50V	
C514	1-162-282-31	CERAMIC 100PF 10% 50V	
C515	1-162-282-31	CERAMIC 100PF 10% 50V	
C516	1-162-282-31	CERAMIC 100PF 10% 50V	
C517	1-162-282-31	CERAMIC 100PF 10% 50V	
C518	1-162-282-31	CERAMIC 100PF 10% 50V	
C519	1-162-282-31	CERAMIC 100PF 10% 50V	
C520	1-162-282-31	CERAMIC 100PF 10% 50V	
C521	1-162-282-31	CERAMIC 100PF 10% 50V	
C522	1-162-282-31	CERAMIC 100PF 10% 50V	
C523	1-162-282-31	CERAMIC 100PF 10% 50V	
C530	1-126-160-11	ELECT 1uF 20% 50V	
C531	1-136-161-00	FILM 0.047uF 5% 50V	
C532	1-124-464-11	ELECT 0.22uF 20% 50V	
C533	1-124-464-11	ELECT 0.22uF 20% 50V	
C534	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C535	1-124-464-11	ELECT 0.22uF 20% 50V	
C536	1-136-159-00	FILM 0.033uF 5% 50V	
C537	1-162-302-11	CERAMIC 0.0022uF 30% 16V	
C538	1-124-464-11	ELECT 0.22uF 20% 50V	
C539	1-162-288-31	CERAMIC 330PF 10% 50V	
C540	1-124-464-11	ELECT 0.22uF 20% 50V	
C641	1-126-163-11	ELECT 4.7uF 20% 50V	
		< CONNECTOR >	
* CN500	1-568-856-11	SOCKET, CONNECTOR 13P	
* CN503	1-568-946-11	PIN, CONNECTOR 8P	
		< DIODE >	
D500	8-719-058-03	DIODE SEL5423E-TP15 (TUNER/BAND)	
D501	8-719-033-06	DIODE SEL5920A (CLIP C)	
D502	8-719-057-97	DIODE SEL5923A-TP15 (DSP)	
D502A	8-719-057-97	DIODE SEL5923A-TP15 (DSP)	
D503	8-719-033-06	DIODE SEL5920A (CLIP B)	
D504	8-719-057-97	DIODE SEL5923A-TP15 (DOLBY PRO LOGIC)	
D504A	8-719-057-97	DIODE SEL5923A-TP15 (DOLBY PRO LOGIC)	
D505	8-719-033-06	DIODE SEL5920A (CLIP A)	
D506	8-719-058-17	DIODE LNJ401NPYJA (GROOVE)	
D507	8-719-057-09	DIODE LNJ801LPDJA (EFFECT ON/OFF)	
D529	8-719-057-97	DIODE SEL5923A-TP15 (CD)	
D531	8-719-057-97	DIODE SEL5923A-TP15 (1/ALL DISCS)	
D533	8-719-057-97	DIODE SEL5923A-TP15 (PLAY MODE)	
D535	8-719-057-97	DIODE SEL5923A-TP15 (REPEAT)	
D537	8-719-057-97	DIODE SEL5923A-TP15 (EDIT)	
D539	8-719-057-97	DIODE SEL5923A-TP15 (TUNER)	
D541	8-719-057-97	DIODE SEL5923A-TP15 (TUNING MODE)	
D543	8-719-057-97	DIODE SEL5923A-TP15 (TUNER MEMORY)	
D545	8-719-057-97	DIODE SEL5923A-TP15 (STEREO)	
D547	8-719-057-97	DIODE SEL5923A-TP15 (MONO)	
D549	8-719-057-97	DIODE SEL5923A-TP15 (TIMER)	
D551	8-719-057-97	DIODE SEL5923A-TP15 (CLOCK SET)	
D553	8-719-057-97	DIODE SEL5923A-TP15 (SET)	
D555	8-719-057-97	DIODE SEL5923A-TP15 (SELECT)	
D557	8-719-057-97	DIODE SEL5923A-TP15 (SLEEP)	
D559	8-719-987-63	DIODE 1N4148M	
D560	8-719-987-63	DIODE 1N4148M	
D561	8-719-987-63	DIODE 1N4148M	
D562	8-719-987-63	DIODE 1N4148M	
D563	8-719-987-63	DIODE 1N4148M	
		< FLUORESCENT INDICATOR >	
FL501	1-517-483-11	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC500	8-759-375-43	IC ASD0204-012-3BA	
IC501	8-759-332-18	IC GP1U27XB	

Ref. No.	Part No.	Description				Remark
		< TRANSISTOR >				
Q500	8-729-119-78	TRANSISTOR	2SC2785HFE			
Q501	8-729-118-00	TRANSISTOR	2SB1116-L			
Q502	8-729-118-00	TRANSISTOR	2SB1116-L			
Q503	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q504	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q505	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q506	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q514	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q515	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q516	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q517	8-729-111-29	TRANSISTOR	2SD1616A-K			
Q518	8-729-111-29	TRANSISTOR	2SD1616A-K			
Q519	8-729-111-29	TRANSISTOR	2SD1616A-K			
Q520	8-729-119-78	TRANSISTOR	2SC2785HFE			
		< RESISTOR >				
R500	1-247-887-00	CARBON	220K	5%	1/4W	
R501	1-247-903-00	CARBON	1M	5%	1/4W	
R502	1-249-429-11	CARBON	10K	5%	1/4W	
R503	1-249-429-11	CARBON	10K	5%	1/4W	
R504	1-249-429-11	CARBON	10K	5%	1/4W	
R505	1-249-429-11	CARBON	10K	5%	1/4W	
R506	1-249-429-11	CARBON	10K	5%	1/4W	
R507	1-249-429-11	CARBON	10K	5%	1/4W	
R508	1-249-429-11	CARBON	10K	5%	1/4W	
R510	1-247-807-31	CARBON	100	5%	1/4W	
R511	1-247-807-31	CARBON	100	5%	1/4W	
R512	1-247-807-31	CARBON	100	5%	1/4W	
R513	1-247-807-31	CARBON	100	5%	1/4W	
R514	1-247-807-31	CARBON	100	5%	1/4W	
R515	1-247-807-31	CARBON	100	5%	1/4W	
R516	1-249-441-11	CARBON	100K	5%	1/4W	
R517	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R526	1-249-415-11	CARBON	680	5%	1/4W	F
R527	1-249-417-11	CARBON	1K	5%	1/4W	F
R528	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R529	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R530	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R531	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R532	1-249-431-11	CARBON	15K	5%	1/4W	
R533	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R534	1-249-401-11	CARBON	47	5%	1/4W	F
R535	1-249-403-11	CARBON	68	5%	1/4W	F
R536	1-247-807-31	CARBON	100	5%	1/4W	
R537	1-249-407-11	CARBON	150	5%	1/4W	F
R538	1-249-407-11	CARBON	150	5%	1/4W	F
R539	1-247-815-91	CARBON	220	5%	1/4W	
R540	1-249-411-11	CARBON	330	5%	1/4W	
R547	1-249-419-11	CARBON	1.5K	5%	1/4W	F

Ref. No.	Part No.	Description				Remark
R548	1-249-401-11	CARBON	47	5%	1/4W	F
R549	1-249-403-11	CARBON	68	5%	1/4W	F
R550	1-247-807-31	CARBON	100	5%	1/4W	
R551	1-249-407-11	CARBON	150	5%	1/4W	F
R552	1-249-407-11	CARBON	150	5%	1/4W	F
R563	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R564	1-249-401-11	CARBON	47	5%	1/4W	F
R565	1-249-413-11	CARBON	470	5%	1/4W	F
R566	1-247-815-91	CARBON	220	5%	1/4W	
R567	1-249-411-11	CARBON	330	5%	1/4W	
R576	1-249-429-11	CARBON	10K	5%	1/4W	
R577	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R578	1-249-429-11	CARBON	10K	5%	1/4W	
R579	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R580	1-249-401-11	CARBON	47	5%	1/4W	F
R581	1-249-407-11	CARBON	150	5%	1/4W	F
R582	1-249-403-11	CARBON	68	5%	1/4W	F
R583	1-249-407-11	CARBON	150	5%	1/4W	F
R584	1-249-403-11	CARBON	68	5%	1/4W	F
R585	1-249-407-11	CARBON	150	5%	1/4W	F
R586	1-247-807-31	CARBON	100	5%	1/4W	
R587	1-249-407-11	CARBON	150	5%	1/4W	F
R616	1-249-406-11	CARBON	120	5%	1/4W	F
R617	1-249-406-11	CARBON	120	5%	1/4W	F
R618	1-249-406-11	CARBON	120	5%	1/4W	F
R619	1-249-406-11	CARBON	120	5%	1/4W	F
R620	1-249-406-11	CARBON	120	5%	1/4W	F
R621	1-249-407-11	CARBON	150	5%	1/4W	F
R622	1-249-407-11	CARBON	150	5%	1/4W	F
R623	1-249-407-11	CARBON	150	5%	1/4W	F
R624	1-249-407-11	CARBON	150	5%	1/4W	F
R625	1-249-407-11	CARBON	150	5%	1/4W	F
R626	1-249-408-11	CARBON	180	5%	1/4W	F
R627	1-249-408-11	CARBON	180	5%	1/4W	F
R628	1-249-408-11	CARBON	180	5%	1/4W	F
R629	1-249-408-11	CARBON	180	5%	1/4W	F
R630	1-249-408-11	CARBON	180	5%	1/4W	F
R631	1-247-899-11	CARBON	680K	5%	1/4W	
R632	1-247-899-11	CARBON	680K	5%	1/4W	
R633	1-247-899-11	CARBON	680K	5%	1/4W	
R634	1-247-899-11	CARBON	680K	5%	1/4W	
R646	1-249-417-11	CARBON	1K	5%	1/4W	F
R647	1-249-417-11	CARBON	1K	5%	1/4W	F
R648	1-249-417-11	CARBON	1K	5%	1/4W	F
R649	1-249-401-11	CARBON	47	5%	1/4W	F
R650	1-249-429-11	CARBON	10K	5%	1/4W	
R651	1-249-429-11	CARBON	10K	5%	1/4W	
R652	1-249-429-11	CARBON	10K	5%	1/4W	
R653	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R654	1-249-437-11	CARBON	47K	5%	1/4W	

Ref. No.	Part No.	Description				Remark
R655	1-247-895-00	CARBON	470K	5%	1/4W	
R656	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R657	1-249-437-11	CARBON	47K	5%	1/4W	
R658	1-247-895-00	CARBON	470K	5%	1/4W	
R659	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R660	1-249-437-11	CARBON	47K	5%	1/4W	
R661	1-247-895-00	CARBON	470K	5%	1/4W	
R662	1-249-437-11	CARBON	47K	5%	1/4W	
R663	1-247-895-00	CARBON	470K	5%	1/4W	
R665	1-249-441-11	CARBON	100K	5%	1/4W	
R666	1-249-429-11	CARBON	10K	5%	1/4W	
		< SWITCH >				
S509	1-554-303-21	SWITCH, TACTILE (TIMER)				
S510	1-554-303-21	SWITCH, TACTILE (DSP)				
S511	1-554-303-21	SWITCH, TACTILE (DOLBY PRO LOGIC)				
S512	1-554-303-21	SWITCH, TACTILE (MULTI FUNCTION CONTROL) (1)				
S513	1-554-303-21	SWITCH, TACTILE (MULTI FUNCTION CONTROL) (2)				
S514	1-554-303-21	SWITCH, TACTILE (MULTI FUNCTION CONTROL) (3)				
S515	1-554-303-21	SWITCH, TACTILE (MULTI FUNCTION CONTROL) (4)				
S517	1-554-303-21	SWITCH, TACTILE (DISPLAY/DEMO)				
S519	1-554-303-21	SWITCH, TACTILE (CLIP PLAY, CD MUSIC CLIP)				
S520	1-554-303-21	SWITCH, TACTILE (CLIP ERASE, CD MUSIC CLIP)				
S521	1-554-303-21	SWITCH, TACTILE (CLIP A, CD MUSIC CLIP)				
S522	1-554-303-21	SWITCH, TACTILE (CLIP B, CD MUSIC CLIP)				
S523	1-554-303-21	SWITCH, TACTILE (CLIP C, CD MUSIC CLIP)				
S530	1-554-303-21	SWITCH, TACTILE (MENU 1)				
S531	1-554-303-21	SWITCH, TACTILE (MENU 2)				
S532	1-554-303-21	SWITCH, TACTILE (MENU 3)				
S533	1-554-303-21	SWITCH, TACTILE (MENU 4)				
S534	1-554-303-21	SWITCH, TACTILE (P FILE)				
S535	1-554-303-21	SWITCH, TACTILE (EFFECT ON/OFF)				
S551	1-554-303-21	SWITCH, TACTILE (TUNER/BAND)				
S552	1-554-303-21	SWITCH, TACTILE (FUNCTION)				
S553	1-554-303-21	SWITCH, TACTILE (GROOVE)				
		< VIBRATOR >				
X500	1-579-233-11	VIBRATOR, CERAMIC (5MHz)				

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Ref. No.	Part No.	Description	Remark
*	A-4389-543-A	POWER AMP BOARD, COMPLETE (AEP, UK, G, IT)	
		**********	
*	A-4389-557-A	POWER AMP BOARD, COMPLETE (US, CND)	
		**********	
*	A-4389-566-A	POWER AMP BOARD, COMPLETE	
		**********	
			(E, AUS, SP, HK, IA, AR, PX)
*	A-4389-975-A	POWER AMP BOARD, COMPLETE (TH)	
		**********	
*	A-4390-000-A	POWER AMP BOARD, COMPLETE (EA, MY)	
		**********	
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
		< CAPACITOR >	
C1201	1-124-667-11	ELECT 10uF 20% 100V	(US, CND)
C1201	1-126-963-11	ELECT 4.7uF 20% 50V	(EXCEPT US, CND)
C1202	1-162-292-31	CERAMIC 680PF 10% 50V	
C1203	1-162-286-21	CERAMIC 220PF 10% 50V	
C1204	1-126-967-11	ELECT 47uF 20% 50V	(US, CND)
C1204	1-104-664-11	ELECT 47uF 20% 10V	(EXCEPT US, CND)
C1205	1-126-967-11	ELECT 47uF 20% 50V	
C1206	1-128-560-11	ELECT 22uF 20% 100V	(US, CND)
C1206	1-126-968-11	ELECT 100uF 20% 50V	(EXCEPT US, CND)
C1208	1-126-965-11	ELECT 22uF 20% 50V	
C1210	1-136-495-11	FILM 0.068uF 5% 50V	
C1211	1-136-495-11	FILM 0.068uF 5% 50V	
C1220	1-126-933-11	ELECT 100uF 20% 10V	(US, CND)
C1220	1-126-925-11	ELECT 470uF 20% 10V	(EXCEPT US, CND)
C1225	1-162-284-31	CERAMIC 150PF 10% 50V	
C1226	1-162-284-31	CERAMIC 150PF 10% 50V	
C1231	1-162-284-31	CERAMIC 150PF 10% 50V	
C1232	1-162-284-31	CERAMIC 150PF 10% 50V	
C1235	1-126-933-11	ELECT 100uF 20% 10V	(US, CND)
C1235	1-126-923-11	ELECT 220uF 20% 10V	(EXCEPT US, CND)
C1236	1-126-923-11	ELECT 220uF 20% 10V	
C1237	1-124-925-11	ELECT 2.2uF 20% 100V	
C1238	1-126-933-11	ELECT 100uF 20% 10V	
C1239	1-124-902-00	ELECT 0.47uF 20% 50V	
C1240	1-126-963-11	ELECT 4.7uF 20% 50V	
C1251	1-124-667-11	ELECT 10uF 20% 100V	(US, CND)
C1251	1-126-963-11	ELECT 4.7uF 20% 50V	(EXCEPT US, CND)
C1252	1-162-292-31	CERAMIC 680PF 10% 50V	
C1253	1-162-286-21	CERAMIC 220PF 10% 50V	

Ref. No.	Part No.	Description			Remark
C1254	1-126-967-11	ELECT	47uF	20%	50V (US, CND)
C1254	1-104-664-11	ELECT	47uF	20%	10V (EXCEPT US, CND)
C1255	1-126-967-11	ELECT	47uF	20%	50V
C1256	1-128-560-11	ELECT	22uF	20%	100V (US, CND)
C1256	1-126-968-11	ELECT	100uF	20%	50V (EXCEPT US, CND)
C1260	1-136-495-11	FILM	0.068uF	5%	50V
C1261	1-136-495-11	FILM	0.068uF	5%	50V
C1274	1-164-159-21	CERAMIC	0.1uF		50V
C1275	1-164-159-21	CERAMIC	0.1uF		50V
C1276	1-164-159-21	CERAMIC	0.1uF		50V
C1277	1-164-159-21	CERAMIC	0.1uF		50V
C1278	1-161-494-00	CERAMIC	0.022uF		25V
C1279	1-161-494-00	CERAMIC	0.022uF		25V
C1280	1-164-159-21	CERAMIC	0.1uF		50V
C1281	1-164-159-21	CERAMIC	0.1uF		50V
C1282	1-164-159-21	CERAMIC	0.1uF		50V
C1283	1-164-159-21	CERAMIC	0.1uF		50V
C1284	1-161-494-00	CERAMIC	0.022uF		25V
C1285	1-161-494-00	CERAMIC	0.022uF		25V
C1286	1-128-550-11	ELECT	2200uF	20%	50V
C1287	1-128-550-11	ELECT	2200uF	20%	50V
C1288	1-164-159-21	CERAMIC	0.1uF		50V
C1289	1-164-159-21	CERAMIC	0.1uF		50V
C1290	1-128-493-11	ELECT	4700uF	20%	71V (US, CND)
C1290	1-126-138-11	ELECT	4700uF	20%	50V (AEP, UK, G, IT)
C1290	1-104-482-11	ELECT	4700uF	20%	63V (EXCEPT US, CND, AEP, UK, G, IT)
C1291	1-128-493-11	ELECT	4700uF	20%	71V (US, CND)
C1291	1-126-138-11	ELECT	4700uF	20%	50V (EXCEPT US, CND)
		< CONNECTOR >			
* CN1201	1-766-957-11	CONNECTOR, BOARD TO BOARD 20P			
* CN1202	1-568-937-11	PIN, CONNECTOR 10P			
		< DIODE >			
D1201	8-719-815-85	DIODE 1S1585 (US, CND)			
D1201	8-719-987-63	DIODE 1N4148M (EXCEPT US, CND)			
D1202	8-719-987-63	DIODE 1N4148M			
D1203	8-719-987-63	DIODE 1N4148M			
D1205	8-719-815-85	DIODE 1S1585			
D1206	8-719-815-85	DIODE 1S1585			
D1207	8-719-815-85	DIODE 1S1585			
D1208	8-719-815-85	DIODE 1S1585			
D1209	8-719-815-85	DIODE 1S1585			
D1230	8-719-987-63	DIODE 1N4148M			
D1231	8-719-987-63	DIODE 1N4148M			
D1232	8-719-987-63	DIODE 1N4148M			
D1240	8-719-815-85	DIODE 1S1585 (US, CND)			
D1240	8-719-987-63	DIODE 1N4148M (EXCEPT US, CND)			
D1251	8-719-815-85	DIODE 1S1585 (US, CND)			
D1251	8-719-987-63	DIODE 1N4148M (EXCEPT US, CND)			
D1270	8-719-987-63	DIODE 1N4148M			
D1271	8-719-987-63	DIODE 1N4148M			
D1274	8-719-987-63	DIODE 1N4148M			
D1275	8-719-987-63	DIODE 1N4148M			
D1276	8-719-987-63	DIODE 1N4148M			
D1277	8-719-987-63	DIODE 1N4148M			
		< GROUND TERMINAL >			
EPT121	1-537-770-21	TERMINAL BOARD, GROUND			
		< IC >			
IC1201	8-749-921-68	IC STK-4231MK2 (US,CND)			
IC1201	8-749-900-34	IC STK-4182MK2 (AEP, UK, G, IT)			
IC1201	8-749-900-78	IC STK-4192MK2 (EXCEPT US, CND, AEP, UK, G, IT)			
IC1202	8-759-111-68	IC UPC1237HA			
		< COIL >			
L1201	1-420-872-00	COIL, AIR-CORE (AEP, UK, G, IT)			
L1202	1-420-872-00	COIL, AIR-CORE (AEP, UK, G, IT)			
L1203	1-420-872-00	COIL, AIR-CORE (AEP, UK, G, IT)			
L1204	1-420-872-00	COIL, AIR-CORE (AEP, UK, G, IT)			
L1205	1-420-872-00	COIL, AIR-CORE (AEP, UK, G, IT)			
		< TRANSISTOR >			
Q1201	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			
Q1210	8-729-900-89	TRANSISTOR DTC144ES			
Q1230	8-729-900-89	TRANSISTOR DTC144ES			
Q1240	8-729-900-63	TRANSISTOR DTA124ES			
Q1243	8-729-140-04	TRANSISTOR 2SB1116A-L			
Q1244	8-729-904-39	TRANSISTOR DTC114TS			
Q1245	8-729-140-04	TRANSISTOR 2SB1116A-L			
Q1246	8-729-904-39	TRANSISTOR DTC114TS			
Q1247	8-729-900-80	TRANSISTOR DTC114ES			
Q1248	8-729-140-04	TRANSISTOR 2SB1116A-L			
Q1249	8-729-904-39	TRANSISTOR DTC114TS			
Q1250	8-729-140-04	TRANSISTOR 2SB1116A-L			
Q1251	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			
		< RESISTOR >			
R1201	1-249-417-11	CARBON	1K	5%	1/4W F
R1202	1-249-437-11	CARBON	47K	5%	1/4W

POWER AMP

Ref.No.	Part No.	Description				Remark
R1203	1-249-415-11	CARBON	680	5%	1/4W	F
R1204	1-249-437-11	CARBON	47K	5%	1/4W	
R1206	1-260-107-11	CARBON	4.7K	5%	1/2W	(US, CND)
R1206	1-260-105-11	CARBON	3.3K	5%	1/2W	(EXCEPT US, CND)
R1208	1-260-107-11	CARBON	4.7K	5%	1/2W	(US, CND)
R1208	1-260-105-11	CARBON	3.3K	5%	1/2W	(EXCEPT US, CND)
⚠R1209	1-212-881-11	FUSIBLE	100	5%	1/4W	F
⚠R1210	1-208-601-11	WIREWOUND	0.1	10%	2W	F (US, CND)
⚠R1210	1-208-602-11	WIREWOUND	0.22	10%	2W	F (EXCEPT US, CND)
R1211	1-249-417-11	CARBON	1K	5%	1/4W	F
R1212	1-247-863-91	CARBON	22K	5%	1/4W	(US, CND)
R1212	1-249-431-11	CARBON	15K	5%	1/4W	(EXCEPT US, CND)
R1213	1-249-441-11	CARBON	100K	5%	1/4W	
R1215	1-260-102-11	CARBON	1.8K	5%	1/2W	(US, CND)
R1215	1-260-099-11	CARBON	1K	5%	1/2W	(EXCEPT US, CND)
R1216	1-260-102-11	CARBON	1.8K	5%	1/2W	(US, CND)
R1216	1-260-099-11	CARBON	1K	5%	1/2W	(EXCEPT US, CND)
R1218	1-260-076-11	CARBON	10	5%	1/2W	
R1220	1-249-437-11	CARBON	47K	5%	1/4W	
R1221	1-249-437-11	CARBON	47K	5%	1/4W	
R1222	1-249-440-11	CARBON	82K	5%	1/4W	
R1223	1-249-440-11	CARBON	82K	5%	1/4W	
R1224	1-249-437-11	CARBON	47K	5%	1/4W	
R1227	1-249-429-11	CARBON	10K	5%	1/4W	
R1228	1-247-893-11	CARBON	390K	5%	1/4W	(US, CND)
R1228	1-247-883-00	CARBON	150K	5%	1/4W	(EXCEPT US, CND)
R1229	1-249-429-11	CARBON	10K	5%	1/4W	
R1230	1-249-438-11	CARBON	56K	5%	1/4W	(US, CND)
R1230	1-249-429-11	CARBON	10K	5%	1/4W	(EXCEPT US, CND)
R1231	1-249-429-11	CARBON	10K	5%	1/4W	
R1232	1-249-441-11	CARBON	100K	5%	1/4W	
R1233	1-249-437-11	CARBON	47K	5%	1/4W	(US, CND)
R1233	1-249-435-11	CARBON	33K	5%	1/4W	(EXCEPT US, CND)
R1234	1-247-791-91	CARBON	22	5%	1/4W	
R1235	1-247-854-11	CARBON	9.1K	5%	1/4W	(US, CND)
R1235	1-249-425-11	CARBON	4.7K	5%	1/4W	F (EXCEPT US, CND)
R1236	1-247-854-11	CARBON	9.1K	5%	1/4W	(US, CND)
R1236	1-249-425-11	CARBON	4.7K	5%	1/4W	F (EXCEPT US, CND)
R1237	1-249-429-11	CARBON	10K	5%	1/4W	
R1238	1-247-863-91	CARBON	22K	5%	1/4W	
R1239	1-247-863-91	CARBON	22K	5%	1/4W	
R1240	1-249-441-11	CARBON	100K	5%	1/4W	
R1243	1-249-439-11	CARBON	68K	5%	1/4W	
R1244	1-249-437-11	CARBON	47K	5%	1/4W	
R1245	1-249-439-11	CARBON	68K	5%	1/4W	
R1246	1-249-437-11	CARBON	47K	5%	1/4W	
⚠R1250	1-217-637-00	FUSIBLE	1	5%	1/4W	F
R1251	1-249-417-11	CARBON	1K	5%	1/4W	F
R1252	1-249-437-11	CARBON	47K	5%	1/4W	
R1253	1-249-415-11	CARBON	680	5%	1/4W	F
R1254	1-249-437-11	CARBON	47K	5%	1/4W	
R1256	1-260-107-11	CARBON	4.7K	5%	1/2W	(US, CND)
R1256	1-260-105-11	CARBON	3.3K	5%	1/2W	(EXCEPT US, CND)
R1258	1-260-107-11	CARBON	4.7K	5%	1/2W	(US, CND)
R1258	1-260-105-11	CARBON	3.3K	5%	1/2W	(EXCEPT US, CND)
⚠R1259	1-212-881-11	FUSIBLE	100	5%	1/4W	F
⚠R1260	1-208-601-11	WIREWOUND	0.1	10%	2W	F (US, CND)
⚠R1260	1-208-602-11	WIREWOUND	0.22	10%	2W	F (EXCEPT US,CND)
R1261	1-249-417-11	CARBON	1K	5%	1/4W	F
R1262	1-247-863-91	CARBON	22K	5%	1/4W	(US,CND)
R1262	1-249-431-11	CARBON	15K	5%	1/4W	(EXCEPT US,CND)
R1263	1-249-441-11	CARBON	100K	5%	1/4W	
R1264	1-249-389-11	CARBON	4.7	5%	1/4W	F (AEP, UK, G, IT)
R1265	1-249-389-11	CARBON	4.7	5%	1/4W	F (AEP, UK, G, IT)
R1266	1-249-393-11	CARBON	10	5%	1/4W	F
R1268	1-260-076-11	CARBON	10	5%	1/2W	
R1269	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R1270	1-249-429-11	CARBON	10K	5%	1/4W	
R1271	1-249-429-11	CARBON	10K	5%	1/4W	
R1272	1-260-093-11	CARBON	330	5%	1/2W	
R1273	1-260-093-11	CARBON	330	5%	1/2W	
R1274	1-260-093-11	CARBON	330	5%	1/2W	
R1275	1-260-093-11	CARBON	330	5%	1/2W	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
R1276	1-249-389-11	CARBON	4.7	5%	1/4W F (AEP, UK, G, IT)
R1277	1-249-389-11	CARBON	4.7	5%	1/4W F (AEP, UK, G, IT)
R1278	1-249-389-11	CARBON	4.7	5%	1/4W F (AEP, UK, G, IT)
R1279	1-249-389-11	CARBON	4.7	5%	1/4W F (AEP, UK, G, IT)
R1280	1-249-393-11	CARBON	10	5%	1/4W F
R1281	1-249-393-11	CARBON	10	5%	1/4W F
R1282	1-249-389-11	CARBON	4.7	5%	1/4W F (AEP, UK, G, IT)
R1283	1-249-389-11	CARBON	4.7	5%	1/4W F (AEP, UK, G, IT)
R1284	1-249-389-11	CARBON	4.7	5%	1/4W F (AEP, UK, G, IT)
R1285	1-249-389-11	CARBON	4.7	5%	1/4W F (AEP, UK, G, IT)
R1286	1-249-393-11	CARBON	10	5%	1/4W F
R1287	1-249-393-11	CARBON	10	5%	1/4W F
R1288	1-249-425-11	CARBON	4.7K	5%	1/4W F
R1289	1-249-420-11	CARBON	1.8K	5%	1/4W F
⚠R1290	1-216-454-11	METAL OXIDE	390	5%	2W F
⚠R1291	1-216-454-11	METAL OXIDE	390	5%	2W F
R1292	1-249-425-11	CARBON	4.7K	5%	1/4W F
R1293	1-249-420-11	CARBON	1.8K	5%	1/4W F
⚠R1294	1-216-454-11	METAL OXIDE	390	5%	2W F
⚠R1295	1-216-454-11	METAL OXIDE	390	5%	2W F
R1296	1-249-425-11	CARBON	4.7K	5%	1/4W F
R1297	1-249-420-11	CARBON	1.8K	5%	1/4W F
R1298	1-249-420-11	CARBON	1.8K	5%	1/4W F
		< RELAY >			
RY1201	1-755-141-11	RELAY (US, CND)			
RY1201	1-755-142-11	RELAY (EXCEPT US, CND)			
RY1202	1-755-142-11	RELAY			
RY1203	1-755-142-11	RELAY			
RY1204	1-755-142-11	RELAY			
		< TERMINAL >			
TM1201	1-537-842-11	TERMINAL BOARD (FRONT SPEAKER)			
TM1202	1-537-842-11	TERMINAL BOARD (REAR SPEAKER)			
TM1203	1-537-842-11	TERMINAL BOARD (CENTER SPEAKER)			
**********					
*	1-658-576-11	SENSOR BOARD **********			
		< IC >			
IC702	8-749-924-18	IC PHOTO INTERRUPTER RPI-1391			
IC703	8-749-924-30	IC PHOTO REFLECTOR GP2S28			

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R701	1-249-416-11	CARBON	820	5%	1/4W F
R702	1-249-407-11	CARBON	150	5%	1/4W F
**********					
*	1-659-623-11	SENSOR (FAN) BOARD **********			
		< CAPACITOR >			
C1295	1-164-159-21	CERAMIC	0.1uF		50V
		< CONNECTOR >			
* CN1295	1-564-337-00	PIN, CONNECTOR 3P			
		< IC >			
IC1295	8-759-947-34	IC LM35DZ			
**********					
*	A-4389-546-A	SURROUND AMPLIFIER BOARD, COMPLETE **********			(AEP, UK, G, IT)
*	A-4389-568-A	SURROUND AMPLIFIER BOARD, COMPLETE **********			(US, CND, E, AUS, SP, HK, IA, AR, PX)
*	A-4389-978-A	SURROUND AMPLIFIER BOARD, COMPLETE (TH) **********			
*	A-4390-002-A	SURROUND AMPLIFIER BOARD, COMPLETE **********			(EA,MY)
		< CAPACITOR >			
C1301	1-126-963-11	ELECT	4.7uF	20%	50V
C1302	1-162-292-31	CERAMIC	680PF	10%	50V
C1303	1-162-286-21	CERAMIC	220PF	10%	50V
C1304	1-126-967-11	ELECT	47uF	20%	50V
C1305	1-126-967-11	ELECT	47uF	20%	50V
C1306	1-126-968-11	ELECT	100uF	20%	50V
C1308	1-126-965-11	ELECT	22uF	20%	50V
C1310	1-136-495-11	FILM	0.068uF	5%	50V
C1311	1-136-495-11	FILM	0.068uF	5%	50V
C1320	1-126-923-11	ELECT	220uF	20%	10V
C1325	1-162-284-31	CERAMIC	150PF	10%	50V
C1326	1-162-284-31	CERAMIC	150PF	10%	50V (AEP, UK, G, IT)
C1351	1-126-963-11	ELECT	4.7uF	20%	50V
C1352	1-162-292-31	CERAMIC	680PF	10%	50V
C1353	1-162-286-21	CERAMIC	220PF	10%	50V

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Ref. No.	Part No.	Description				Remark
C1354	1-126-967-11	ELECT	47uF	20%	50V	
C1355	1-126-967-11	ELECT	47uF	20%	50V	
C1356	1-126-968-11	ELECT	100uF	20%	50V	
C1360	1-136-495-11	FILM	0.068uF	5%	50V	
C1361	1-136-495-11	FILM	0.068uF	5%	50V	
		< CONNECTOR >				
CN1301	1-691-765-11	PLUG (MICRO CONNECTOR) 3P				
CN1302	1-691-771-11	PLUG (MICRO CONNECTOR) 9P				
CN1303	1-691-766-11	PLUG (MICRO CONNECTOR) 4P				
		< DIODE >				
D1241	8-719-987-63	DIODE 1N4148M				
D1242	8-719-987-63	DIODE 1N4148M				
D1301	8-719-987-63	DIODE 1N4148M				
D1302	8-719-987-63	DIODE 1N4148M				
D1303	8-719-987-63	DIODE 1N4148M				
D1351	8-719-987-63	DIODE 1N4148M				
		< GROUND TERMINAL >				
EPT131	1-537-770-21	TERMINAL BOARD, GROUND				
EPT132	1-537-770-21	TERMINAL BOARD, GROUND (AEP, UK, G, IT)				
		< IC >				
IC1301	8-749-900-96	IC STK-4142MK2				
		< TRANSISTOR >				
Q1242	8-729-900-80	TRANSISTOR DTC114ES				
Q1301	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA				
Q1351	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA				
Q1353	8-729-900-89	TRANSISTOR DTC144ES				
		< RESISTOR >				
R1225	1-249-429-11	CARBON	10K	5%	1/4W	
R1301	1-249-417-11	CARBON	1K	5%	1/4W	F
R1302	1-249-437-11	CARBON	47K	5%	1/4W	
R1303	1-249-415-11	CARBON	680	5%	1/4W	F
R1304	1-249-437-11	CARBON	47K	5%	1/4W	
R1305	1-260-103-11	CARBON	2.2K	5%	1/2W	
R1306	1-260-103-11	CARBON	2.2K	5%	1/2W	
⚠R1309	1-212-881-11	FUSIBLE	100	5%	1/4W	F
⚠R1310	1-208-602-11	WIREWOUND	0.22	10%	2W	F
R1311	1-249-417-11	CARBON	1K	5%	1/4W	F
R1312	1-249-431-11	CARBON	15K	5%	1/4W	
R1313	1-249-441-11	CARBON	100K	5%	1/4W	
R1314	1-260-099-11	CARBON	1K	5%	1/2W	
R1316	1-260-099-11	CARBON	1K	5%	1/2W	
R1318	1-260-076-11	CARBON	10	5%	1/2W	
R1327	1-249-429-11	CARBON	10K	5%	1/4W	
R1328	1-247-881-00	CARBON	120K	5%	1/4W	

Ref. No.	Part No.	Description				Remark
R1330	1-249-429-11	CARBON	10K	5%	1/4W	
R1342	1-249-429-11	CARBON	10K	5%	1/4W	
R1343	1-249-429-11	CARBON	10K	5%	1/4W	
⚠R1344	1-217-637-00	FUSIBLE	1	5%	1/4W	F
R1351	1-249-417-11	CARBON	1K	5%	1/4W	F
R1352	1-249-437-11	CARBON	47K	5%	1/4W	
R1353	1-249-415-11	CARBON	680	5%	1/4W	F
R1354	1-249-437-11	CARBON	47K	5%	1/4W	
R1355	1-260-103-11	CARBON	2.2K	5%	1/2W	
R1356	1-260-103-11	CARBON	2.2K	5%	1/2W	
⚠R1359	1-212-881-11	FUSIBLE	100	5%	1/4W	F
⚠R1360	1-208-602-11	WIREWOUND	0.22	10%	2W	F
R1361	1-249-417-11	CARBON	1K	5%	1/4W	F
R1362	1-249-431-11	CARBON	15K	5%	1/4W	
R1363	1-249-441-11	CARBON	100K	5%	1/4W	
R1368	1-260-076-11	CARBON	10	5%	1/2W	
**********						
*	A-4389-030-A	TC-SW BOARD, COMPLETE (Malaysia product)				
		**********				
*	A-4389-363-A	TC-SW BOARD, COMPLETE (Thailand product)				
		**********				
*	A-4389-541-A	TC-SW BOARD, COMPLETE (Indonesia product)				
		**********				
		< DIODE >				
D523	8-719-032-87	DIODE SEL5420S-TP (◁ DECK B)				
D524	8-719-032-87	DIODE SEL5420S-TP (▷ DECK B)				
D525	8-719-057-09	DIODE LNJ801LPDJA (● REC)				
D526	8-719-058-17	DIODE LNJ401NPYJA (▮▮ PAUSE)				
D527	8-719-032-87	DIODE SEL5420S-TP (◁ DECK A)				
D528	8-719-032-87	DIODE SEL5420S-TP (▷ DECK A)				
		< RESISTOR >				
R553	1-247-815-91	CARBON	220	5%	1/4W	
R554	1-249-411-11	CARBON	330	5%	1/4W	
R555	1-249-413-11	CARBON	470	5%	1/4W	F
R556	1-249-415-11	CARBON	680	5%	1/4W	F
R557	1-249-417-11	CARBON	1K	5%	1/4W	F
R558	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R559	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R560	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R561	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R562	1-249-431-11	CARBON	15K	5%	1/4W	
R568	1-249-413-11	CARBON	470	5%	1/4W	F
R569	1-249-415-11	CARBON	680	5%	1/4W	F
R570	1-249-417-11	CARBON	1K	5%	1/4W	F
R571	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R572	1-249-421-11	CARBON	2.2K	5%	1/4W	F

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Ref. No.	Part No.	Description				Remark
R573	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R574	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R610	1-247-807-31	CARBON	100	5%	1/4W	
R611	1-247-807-31	CARBON	100	5%	1/4W	
R612	1-249-407-11	CARBON	150	5%	1/4W	F
R613	1-249-407-11	CARBON	150	5%	1/4W	F
R614	1-247-807-31	CARBON	100	5%	1/4W	
R615	1-247-807-31	CARBON	100	5%	1/4W	
		< SWITCH >				
S536	1-554-303-21	SWITCH, TACTILE (▷ DECK B)				
S537	1-554-303-21	SWITCH, TACTILE (◁ DECK B)				
S538	1-554-303-21	SWITCH, TACTILE (▶▶ DECK B)				
S539	1-554-303-21	SWITCH, TACTILE (■ DECK B)				
S540	1-554-303-21	SWITCH, TACTILE (◀◀ DECK B)				
S541	1-554-303-21	SWITCH, TACTILE (▮▮ PAUSE)				
S542	1-554-303-21	SWITCH, TACTILE (● REC)				
S543	1-554-303-21	SWITCH, TACTILE (KARAOKE PON/MPX)				
S544	1-554-303-21	SWITCH, TACTILE (CD SYNCRO)				
S545	1-554-303-21	SWITCH, TACTILE (HIGH SPEED DUBBING)				
S554	1-554-303-21	SWITCH, TACTILE (DIRECTION)				
S555	1-554-303-21	SWITCH, TACTILE (DOLBY NR)				
S556	1-554-303-21	SWITCH, TACTILE (▶▶ DECK A)				
S557	1-554-303-21	SWITCH, TACTILE (■ DECK A)				
S558	1-554-303-21	SWITCH, TACTILE (◀◀ DECK A)				
S559	1-554-303-21	SWITCH, TACTILE (▷ DECK A)				
S560	1-554-303-21	SWITCH, TACTILE (◁ DECK A)				
**********						
*	A-4303-510-A	TCB BOARD, COMPLETE (US, CND)				
		**********				
*	A-4303-512-A	TCB BOARD,COMPLETE (E2, AR, AUS)				
		**********				
*	A-4303-537-A	TCB BOARD,COMPLETE (TH)				
		**********				
		< CAPACITOR >				
C1	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C2	1-104-664-11	ELECT	47uF	20%	16V (TH)	
C2	1-126-967-11	ELECT	47uF	20%	16V (EXCEPT TH)	
C3	1-164-159-21	CERAMIC	0.1uF		50V	
C5	1-162-306-11	CERAMIC	10000PF	30%	16V	
C6	1-162-306-11	CERAMIC	10000PF	30%	16V	
C7	1-101-004-00	CERAMIC	0.01uF		50V	
C8	1-162-306-11	CERAMIC	10000PF	30%	16V	
C9	1-162-306-11	CERAMIC	10000PF	30%	16V	
C11	1-164-159-21	CERAMIC	0.1uF		50V	
C12	1-162-198-31	CERAMIC	8.2PF	10%	50V	

Ref. No.	Part No.	Description				Remark
C14	1-162-306-11	CERAMIC	10000PF	30%	16V	
C21	1-102-959-00	CERAMIC	22PF	5%	50V (EXCEPT TH)	
C21	1-102-960-00	CERAMIC	24PF	5%	16V (TH)	
C22	1-164-159-21	CERAMIC	0.1uF		50V	
C23	1-162-306-11	CERAMIC	10000PF	30%	16V	
C24	1-104-664-11	ELECT	47uF	20%	16V (TH)	
C24	1-126-967-11	ELECT	47uF	20%	16V (EXCEPT TH)	
C25	1-162-306-11	CERAMIC	10000PF	30%	16V	
C26	1-126-964-11	ELECT	10uF	20%	50V	
C27	1-164-159-21	CERAMIC	0.1uF		50V	
C28	1-124-925-11	ELECT	2.2uF	20%	100V	
C29	1-102-518-11	CERAMIC	33PF	5%	50V (EXCEPT TH)	
C29	1-102-960-00	CERAMIC	24PF	5%	16V (TH)	
C30	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C31	1-162-306-11	CERAMIC	10000PF	30%	16V	
C41	1-126-933-11	ELECT	100uF	20%	10V	
C42	1-162-306-11	CERAMIC	10000PF	30%	16V	
C43	1-126-962-11	ELECT	3.3uF	20%	50V	
C44	1-162-306-11	CERAMIC	10000PF	30%	16V	
C45	1-124-589-11	ELECT	47uF	20%	16V	
C46	1-162-600-11	CERAMIC	4700PF	30%	16V	
C47	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C48	1-126-160-11	ELECT	1uF	20%	50V	
C49	1-136-159-00	METALIZED FILM	0.033uF	5%	50V (EXCEPT US, CND)	
C49	1-136-160-00	METALIZED FILM	0.039uF	5%	50V (US, CND)	
C50	1-136-159-00	METALIZED FILM	0.033uF	5%	50V (EXCEPT US, CND)	
C50	1-136-160-00	METALIZED FILM	0.039uF	5%	50V (US, CND)	
C51	1-162-600-11	CERAMIC	4700PF	30%	16V	
C52	1-162-600-11	CERAMIC	4700PF	30%	16V	
C53	1-126-964-11	ELECT	10uF	20%	50V	
C54	1-126-157-11	ELECT	10uF	20%	16V	
C55	1-126-964-11	ELECT	10uF	20%	50V	
C56	1-126-964-11	ELECT	10uF	20%	50V	
C57	1-164-159-21	CERAMIC	0.1uF		50V	F
C58	1-162-306-11	CERAMIC	10000PF	30%	16V	
C59	1-164-159-21	CERAMIC	0.1uF		50V	F
C61	1-164-159-21	CERAMIC	0.1uF		50V	F
C62	1-104-664-11	ELECT	47uF	20%	16V (TH)	
C62	1-126-967-11	ELECT	47uF	20%	16V (EXCEPT TH)	
C63	1-164-159-21	CERAMIC	0.1uF		50V	F
C64	1-124-902-00	ELECT	0.47uF	20%	50V	
C65	1-124-903-11	ELECT	1.0uF	20%	50V	
C66	1-124-903-11	ELECT	1.0uF	20%	50V	
C67	1-126-964-11	ELECT	10uF	20%	50V	

TCB

Ref. No.	Part No.	Description				Remark
C68	1-162-306-11	CERAMIC	10000PF	30%	16V	
C69	1-162-306-11	CERAMIC	10000PF	30%	16V	
C70	1-162-306-11	CERAMIC	10000PF	30%	16V	
C71	1-162-306-11	CERAMIC	10000PF	30%	16V	
C73	1-162-306-11	CERAMIC	10000PF	30%	16V	
C74	1-126-964-11	ELECT	10uF	20%	50V	
		< FILTER >				
CF1	1-567-389-11	FILTER, CERAMIC				
CF2	1-567-389-11	FILTER, CERAMIC				
		< CONNECTOR >				
* CN1	1-568-832-11	SOCKET, CONNECTOR 13P				
		< DIODE >				
D1	8-719-933-33	DIODE HZS6A1L				
D2	8-719-987-63	DIODE 1N4148M				
		< FRONTEND >				
FE1	1-233-533-11	ENCAPSULATED COMPONENT				
FE2	1-239-260-11	ENCAPSULATED COMPONENT				
		< IC >				
IC1	8-759-288-54	IC LC72130				
IC2	8-759-176-03	IC LA1835				
		< IFT >				
IFT41	1-409-636-11	TRANSFORMER, IF (CERAMIC FILTER)				
		< COIL >				
L41	1-410-119-11	MICRO INDUCTOR (EL TYPE) 1mH				
		< FILTER >				
LPF41	1-239-845-11	FILTER, LOW PASS				
LPF42	1-239-845-11	FILTER, LOW PASS				
		< TRANSISTOR >				
Q1	8-729-230-99	TRANSISTOR 2SC2669-OY				
Q2	8-729-230-99	TRANSISTOR 2SC2669-OY				
Q3	8-729-230-99	TRANSISTOR 2SC2669-OY				
Q4	8-729-230-99	TRANSISTOR 2SC2669-OY				
Q5	8-729-422-57	TRANSISTOR UN4111				
		< RESISTOR >				
R1	1-249-401-11	CARBON	47	5%	1/4W	F
R2	1-249-411-11	CARBON	330	5%	1/4W	
R3	1-249-411-11	CARBON	330	5%	1/4W	
R5	1-249-411-11	CARBON	330	5%	1/4W	
R6	1-247-863-91	CARBON	22K	5%	1/4W	

Ref. No.	Part No.	Description				Remark
R7	1-249-411-11	CARBON	330	5%	1/4W	
R8	1-249-411-11	CARBON	330	5%	1/4W	
R9	1-247-863-91	CARBON	22K	5%	1/4W	
R10	1-249-411-11	CARBON	330	5%	1/4W	
R11	1-247-863-91	CARBON	22K	5%	1/4W	
R12	1-249-411-11	CARBON	330	5%	1/4W	
R13	1-249-411-11	CARBON	330	5%	1/4W	
R14	1-247-863-91	CARBON	22K	5%	1/4W	
R15	1-249-429-11	CARBON	10K	5%	1/4W	
R16	1-249-437-11	CARBON	47K	5%	1/4W	
R19	1-249-399-11	CARBON	33	5%	1/4W	F
R21	1-247-807-31	CARBON	100	5%	1/4W	
R22	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R23	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R24	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R25	1-247-807-31	CARBON	100	5%	1/4W	
R26	1-249-411-11	CARBON	330	5%	1/4W	
R27	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R28	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R29	1-249-417-11	CARBON	1K	5%	1/4W	F
R30	1-249-417-11	CARBON	1K	5%	1/4W	F
R31	1-249-417-11	CARBON	1K	5%	1/4W	F
R32	1-249-417-11	CARBON	1K	5%	1/4W	F
R33	1-247-807-31	CARBON	100	5%	1/4W	
R34	1-249-429-11	CARBON	10K	5%	1/4W	
R35	1-249-429-11	CARBON	10K	5%	1/4W	
R36	1-249-437-11	CARBON	47K	5%	1/4W	
R37	1-249-417-11	CARBON	1K	5%	1/4W	F
R41	1-249-429-11	CARBON	10K	5%	1/4W	
R43	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R44	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R46	1-249-442-11	CARBON	510	5%	1/4W	
R47	1-249-399-11	CARBON	33	5%	1/4W	F
R48	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R49	1-249-393-11	CARBON	10	5%	1/4W	F
R50	1-249-429-11	CARBON	10K	5%	1/4W	
R51	1-249-441-11	CARBON	100K	5%	1/4W	
R52	1-249-429-11	CARBON	10K	5%	1/4W	
R53	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R54	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R99	1-249-399-11	CARBON	33K	5%	1/4W	F
		< VARIABLE RESISTOR >				
RV41	1-238-600-11	RES, ADJ, CARBON 10K				
RV42	1-238-601-11	RES, ADJ, CARBON 22K				
		< TERMINAL >				
TM1	1-537-238-21	TERMINAL BOARD (ANTENNA)				

Ref. No.	Part No.	Description			Remark
		< VIBRATOR >			
X21	1-567-713-11	VIBRATOR, CRYSTAL (4.5MHz) (TH)			
X21	1-760-549-11	VIBRATOR, CRYSTAL (4.5MHz) (EXCEPT TH)			
X41	1-577-075-11	OSCILLATOR, CERAMIC (456KHz)			
X42	1-760-220-11	FILTER, CERAMIC (10.7MHz)			
X43	1-527-981-00	FILTER, CERAMIC (450KHz)			
**********					
*	A-4303-502-A	TCB BOARD, COMPLETE			
		**********			
					(Indonesia product) (AEP, UK)
*	A-4303-503-A	TCB BOARD, COMPLETE (G, IT)			
		**********			
*	A-4303-514-A	TCB BOARD, COMPLETE (Malaysia product) (AEP)			
		**********			
		< CAPACITOR >			
C1	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C2	1-126-967-11	ELECT	47uF	20%	16V
C3	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C5	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C6	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C8	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C9	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C10	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C11	1-216-295-91	CONDUCTOR, CHIP (2012)			(G, IT)
C16	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C19	1-163-249-11	CERAMIC CHIP	82PF	5%	50V
					(AEP, UK)
C21	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C22	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C23	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C24	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C26	1-126-967-11	ELECT	47uF	20%	16V
C28	1-126-967-11	ELECT	47uF	20%	16V
C29	1-162-306-11	CERAMIC	0.01uF	30%	16V
C30	1-124-925-11	ELECT	2.2uF	20%	100V
C31	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C32	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C33	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C34	1-163-091-00	CERAMIC CHIP	8PF		50V
					(G,IT)
C34	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
					(AEP, UK)
C35	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C36	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C37	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C39	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C40	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C41	1-163-031-11	CERAMIC CHIP	0.01uF		50V

Ref. No.	Part No.	Description			Remark
C42	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C43	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C44	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C45	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C46	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C47	1-126-967-11	ELECT	47uF	20%	16V
C48	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C49	1-124-902-00	ELECT	0.47uF	20%	50V
C50	1-124-903-11	ELECT	1.0uF	20%	50V
C51	1-124-903-11	ELECT	1.0uF	20%	50V
C52	1-126-964-11	ELECT	10uF	20%	50V
C53	1-126-964-11	ELECT	10uF	20%	50V
C54	1-126-157-11	ELECT	10uF	20%	16V
C55	1-126-157-11	ELECT	10uF	20%	16V
C56	1-126-157-11	ELECT	10uF	20%	16V
C57	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C58	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C59	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C60	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C61	1-126-301-11	ELECT	1uF	20%	50V
C62	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C63	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C64	1-126-967-11	ELECT	47uF	20%	16V
C65	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C66	1-126-162-11	ELECT	3.3uF	20%	50V
C67	1-126-933-11	ELECT	100uF	20%	10V
C68	1-162-306-11	CERAMIC	0.01uF	30%	16V
C71	1-162-306-11	CERAMIC	0.01uF	30%	16V
C72	1-126-967-11	ELECT	47uF	20%	16V
C120	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
		< FILTER >			
CF1	1-579-374-71	FILTER, CERAMIC			
CF2	1-760-393-11	FILTER, CERAMIC			
CF3	1-760-393-11	FILTER, CERAMIC			
		< CONNECTOR >			
* CN1	1-568-834-11	SOCKET, CONNECTOR 15P			
		< DIODE >			
D21	8-719-976-99	DIODE DTZ5.1B			
D41	8-719-016-74	DIODE 1SS352			
		< FRONTEND >			
FE1	1-233-542-11	FRONT END (4 GANG)			
FE2	1-233-514-11	ENCAPSULATED COMPONENT (AEP,UK)			
FE2	1-239-260-11	ENCAPSULATED COMPONENT (G,IT)			
		< IC >			
IC21	8-759-288-54	IC LC72130			

TCB

Ref. No.	Part No.	Description			Remark
IC41	8-759-176-03	IC LA1835			
		< IFT >			
IFT41	1-409-636-11	TRANSFORMER, IF (CERAMIC FILTER)			
		< JUMPER RESISTOR >			
JR1	1-216-295-91	METAL CHIP	0	5%	1/10W (G, IT)
JR2	1-216-295-91	METAL CHIP	0	5%	1/10W (AEP, UK)
JR3	1-216-295-91	METAL CHIP	0	5%	1/10W (G, IT)
JR6	1-216-295-91	METAL CHIP	0	5%	1/10W
JR7	1-216-295-91	METAL CHIP	0	5%	1/10W (G, IT)
JR8	1-216-295-91	METAL CHIP	0	5%	1/10W (AEP, UK)
JR9	1-216-295-91	METAL CHIP	0	5%	1/10W (AEP, UK)
JR45	1-216-295-91	METAL CHIP	0	5%	1/10W
JR46	1-216-296-91	METAL CHIP	0	5%	1/8W
JR47	1-216-295-91	METAL CHIP	0	5%	1/10W
JR48	1-216-295-91	METAL CHIP	0	5%	1/10W
JR49	1-216-296-91	METAL CHIP	0	5%	1/8W
JR51	1-216-295-91	METAL CHIP	0	5%	1/10W (AEP, UK)
JR52	1-216-295-91	METAL CHIP	0	5%	1/10W
JR53	1-216-296-91	METAL CHIP	0	5%	1/8W (AEP, UK)
JR54	1-216-295-91	METAL CHIP	0	5%	1/10W
		< JUMPER RESISTOR >			
JW4	1-249-413-11	CARBON 470 5% 1/4W			
JW5	1-249-413-11	CARBON 470 5% 1/4W			
		< COIL >			
L2	1-414-142-11	MICRO INDUCTOR 1uH			
L3	1-410-521-11	MICRO INDUCTOR 100uH			
L4	1-410-515-11	INDUCTOR 33uH			
L41	1-407-500-00	MICRO INDUCTOR 4.7mH (AEP, UK)			
L41	1-410-119-11	MICRO INDUCTOR (EL TYPE) 1mH (G, IT)			
		< FILTER >			
LPF41	1-239-845-11	FILTER, LOW PASS			
LPF42	1-239-845-11	FILTER, LOW PASS			
		< TRANSISTOR >			
Q1	8-729-201-27	TRANSISTOR 2SC2715Y			
Q2	8-729-201-27	TRANSISTOR 2SC2715Y			
Q3	8-729-201-27	TRANSISTOR 2SC2715Y			
Q4	8-729-201-27	TRANSISTOR 2SC2715Y			

Ref. No.	Part No.	Description			Remark
Q5	8-729-424-08	TRANSISTOR UN2111			
Q9	8-729-216-22	TRANSISTOR 2SA1162-G (AEP, UK)			
Q11	8-729-421-22	TRANSISTOR UN2211 (AEP, UK)			
Q12	8-729-421-22	TRANSISTOR UN2211 (AEP, UK)			
Q13	8-729-421-22	TRANSISTOR UN2211 (AEP, UK)			
Q14	8-729-421-22	TRANSISTOR UN2211 (AEP, UK)			
		< RESISTOR >			
R1	1-249-401-11	CARBON	47	5%	1/4W F
R2	1-216-037-00	METAL CHIP	330	5%	1/10W
R3	1-216-037-00	METAL CHIP	330	5%	1/10W
R5	1-216-037-00	METAL CHIP	330	5%	1/10W
R6	1-216-081-00	METAL CHIP	22K	5%	1/10W
R7	1-216-037-00	METAL CHIP	330	5%	1/10W
R8	1-216-037-00	METAL CHIP	330	5%	1/10W
R9	1-216-081-00	METAL CHIP	22K	5%	1/10W
R10	1-216-037-00	METAL CHIP	330	5%	1/10W
R11	1-216-081-00	METAL CHIP	22K	5%	1/10W
R12	1-216-037-00	METAL CHIP	330	5%	1/10W
R13	1-216-037-00	METAL CHIP	330	5%	1/10W
R14	1-216-081-00	METAL CHIP	22K	5%	1/10W
R18	1-216-073-00	METAL CHIP	10K	5%	1/10W (AEP, UK)
R19	1-216-073-00	METAL CHIP	10K	5%	1/10W (AEP, UK)
R21	1-216-049-91	METAL CHIP	1.0K	5%	1/10W
R22	1-216-049-91	METAL CHIP	1.0K	5%	1/10W
R23	1-216-049-91	METAL CHIP	1.0K	5%	1/10W
R24	1-216-025-91	METAL CHIP	100	5%	1/10W
R25	1-249-417-11	CARBON	1K	5%	1/4W F
R26	1-249-437-11	CARBON	47K	5%	1/4W
R27	1-249-429-11	CARBON	10K	5%	1/4W
R28	1-249-417-11	CARBON	1K	5%	1/4W F
R29	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R30	1-216-186-00	METAL CHIP	330	5%	1/8W
R31	1-216-025-91	METAL CHIP	100	5%	1/10W
R32	1-249-425-11	CARBON	4.7K	5%	1/4W F
R33	1-249-425-11	CARBON	4.7K	5%	1/4W F
R34	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R35	1-216-214-00	METAL CHIP	4.7K	5%	1/8W
R36	1-216-025-11	METAL CHIP	100	5%	1/10W
R37	1-216-073-00	METAL CHIP	10K	5%	1/10W
R38	1-216-089-11	METAL CHIP	47K	5%	1/10W
R39	1-249-429-11	CARBON	10K	5%	1/4W
R42	1-216-073-00	METAL CHIP	10K	5%	1/10W
R43	1-216-042-00	METAL CHIP	510	5%	1/10W
R44	1-216-013-00	METAL CHIP	33	5%	1/10W
R45	1-249-423-11	CARBON	3.3K	5%	1/4W F
R46	1-216-073-00	METAL CHIP	10K	5%	1/10W
R47	1-216-097-91	METAL CHIP	100K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R48	1-249-417-11	CARBON	1K	5%	1/4W F
R49	1-216-049-91	METAL CHIP	1.0K	5%	1/10W
R50	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R51	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R53	1-249-429-11	CARBON	10K	5%	1/4W
R55	1-216-162-00	METAL CHIP	33	5%	1/8W
R56	1-249-393-11	CARBON	10	5%	1/4W F
R91	1-216-295-91	METAL CHIP	0	5%	1/10W (AEP, UK)
R92	1-216-073-00	METAL CHIP	10K	5%	1/10W (AEP, UK)
R99	1-249-399-11	CARBON	33	5%	1/4W F
		< VARIABLE RESISTOR >			
RV41	1-238-601-11	RES, ADJ, CARBON 22K			
RV42	1-238-600-11	RES, ADJ, CARBON 10K			
		< TERMINAL >			
TM1	1-537-488-11	TERMINAL BOARD (ANT) (ANTENNA)			
		< VIBRATOR >			
X21	1-760-549-11	VIBRATOR, CRYSTAL (4.5MHz)			
X41	1-760-220-11	FILTER, CERAMIC (10.7MHz)			
X42	1-527-981-00	FILTER, CERAMIC (450KHz)			
X43	1-577-075-11	OSCILLATOR, CERAMIC (456KHz)			
**********					
*	A-4303-506-A	TCB BOARD, COMPLETE (E3, HK, SP, IA, PX) **********			
*	A-4303-518-A	TCB BOARD, COMPLETE (EA, MY) **********			
		< CAPACITOR >			
C1	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C2	1-126-967-11	ELECT	47uF	20%	16V
C3	1-163-038-91	CERAMIC CHIP	100000PF		25V
C5	1-163-031-11	CERAMIC CHIP	10000PF		50V
C6	1-163-038-91	CERAMIC CHIP	100000PF		25V
C7	1-101-004-00	CERAMIC	0.01uF		50V
C8	1-163-031-11	CERAMIC CHIP	10000PF		50V
C9	1-163-031-11	CERAMIC CHIP	10000PF		50V
C10	1-163-031-11	CERAMIC CHIP	10000PF		50V
C11	1-163-038-91	CERAMIC CHIP	100000PF		25V
C14	1-163-038-91	CERAMIC CHIP	100000PF		25V
C15	1-136-162-00	METALIZED FILM	0.056uF	5%	50V
C16	1-163-038-91	CERAMIC CHIP	100000PF		25V
C17	1-163-031-11	CERAMIC CHIP	10000PF		50V
C18	1-163-088-00	CERAMIC CHIP	5PF		50V
C21	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C22	1-163-031-11	CERAMIC CHIP	10000PF		50V

Ref. No.	Part No.	Description			Remark
C23	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C24	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C26	1-126-967-11	ELECT	47uF	20%	50V
C28	1-126-967-11	ELECT	47uF	20%	50V
C29	1-162-306-11	CERAMIC	10000PF	20%	16V
C30	1-124-925-11	ELECT	2.2uF	20%	100V
C31	1-163-031-11	CERAMIC CHIP	10000PF		50V
C32	1-163-038-91	CERAMIC CHIP	100000PF		25V
C33	1-163-038-91	CERAMIC CHIP	100000PF		25V
C34	1-163-091-00	CERAMIC CHIP	8PF		50V
C35	1-163-038-91	CERAMIC CHIP	100000PF		25V
C36	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C37	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C38	1-162-211-31	CERAMIC	33PF	5%	50V
C39	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C40	1-163-031-11	CERAMIC CHIP	10000PF		50V
C41	1-163-031-11	CERAMIC CHIP	10000PF		50V
C42	1-163-038-91	CERAMIC CHIP	100000PF		25V
C43	1-163-038-91	CERAMIC CHIP	100000PF		25V
C44	1-163-031-11	CERAMIC CHIP	10000PF		50V
C45	1-163-038-91	CERAMIC CHIP	100000PF		25V
C46	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C47	1-126-967-11	ELECT	47uF	20%	50V
C48	1-163-031-11	CERAMIC CHIP	10000PF		50V
C49	1-124-902-00	ELECT	0.47uF	20%	50V
C50	1-124-903-11	ELECT	1.0uF	20%	50V
C51	1-124-903-11	ELECT	1.0uF	20%	50V
C52	1-126-964-11	ELECT	10uF	20%	50V
C53	1-126-964-11	ELECT	10uF	20%	50V
C54	1-126-157-11	ELECT	10uF	20%	16V
C55	1-126-157-11	ELECT	10uF	20%	16V
C56	1-126-157-11	ELECT	10uF	20%	16V
C57	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C58	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C59	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C60	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C61	1-126-301-11	ELECT	1uF	20%	50V
C62	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C63	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C64	1-126-967-11	ELECT	47uF	20%	50V
C65	1-163-031-11	CERAMIC CHIP	10000PF		50V
C66	1-126-162-11	ELECT	3.3uF	20%	50V
C67	1-126-933-11	ELECT	100uF	20%	10V
C68	1-162-306-11	CERAMIC	10000PF	20%	16V
C71	1-162-306-11	CERAMIC	10000PF	20%	16V
C72	1-126-967-11	ELECT	47uF	20%	50V
		< FILTER >			
CF1	1-567-389-11	FILTER, CERAMIC			
CF3	1-567-389-11	FILTER, CERAMIC			

TCB

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
* CN1	1-568-834-11	SOCKET, CONNECTOR 15P	
		< VARIABLE CAPACITOR >	
CV1	1-141-227-00	CAP, TRIMMER 20PF	
CV2	1-141-227-00	CAP, TRIMMER 20PF	
		< DIODE >	
D1	8-719-976-30	DIODE KV1560NT	
D21	8-719-976-99	DIODE DTZ5.1B	
D41	8-719-016-74	DIODE 1SS352	
		< FRONT END >	
FE1	1-233-532-11	ENCAPSULATED COMPONENT	
FE2	1-239-262-11	ENCAPSULATED COMPONENT	
		< IC >	
IC21	8-759-288-54	IC LC72130	
IC41	8-759-176-03	IC LA1835	
		< IFT >	
IFT41	1-409-636-11	TRANSFORMER, IF (CERAMIC FILTER)	
		< JUMPER RESISTOR >	
JR45	1-216-295-91	METAL GLAZE 0 5%	1/10W
JR46	1-216-296-91	METAL GLAZE 0 5%	1/8W
JR47	1-216-295-91	METAL GLAZE 0 5%	1/10W
JR48	1-216-295-91	METAL GLAZE 0 5%	1/10W
JR49	1-216-296-91	METAL GLAZE 0 5%	1/8W
JR50	1-216-295-91	METAL GLAZE 0 5%	1/10W
JR51	1-216-295-91	METAL GLAZE 0 5%	1/10W
JR52	1-216-295-91	METAL GLAZE 0 5%	1/10W
JR53	1-216-296-91	METAL GLAZE 0 5%	1/8W
JR54	1-216-295-91	METAL GLAZE 0 5%	1/10W
		< COIL >	
L1	1-410-521-11	MICRO INDUCTOR 100uH	
L3	1-410-521-11	MICRO INDUCTOR 100uH	
L41	1-410-119-11	MICRO INDUCTOR (EL TYPE) 1mH	
		< FILTER >	
LPF41	1-239-845-11	FILTER, LOW PASS	
LPF42	1-239-845-11	FILTER, LOW PASS	
		< TRANSISTOR >	
Q1	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L	
Q2	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L	
Q3	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L	
Q4	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L	
Q5	8-729-424-08	TRANSISTOR UN2111	
Q8	8-729-033-67	TRANSISTOR 2SK211-Y-TE85L	
Q9	8-729-216-22	TRANSISTOR 2SA812-T1-M5M6	
Q10	8-729-216-22	TRANSISTOR 2SA812-T1-M5M6	
Q12	8-729-421-22	TRANSISTOR UN2211	
Q13	8-729-421-22	TRANSISTOR UN2211	
Q14	8-729-421-22	TRANSISTOR UN2211	
		< RESISTOR >	
R1	1-249-401-11	CARBON 47 5%	1/4W
R2	1-216-037-00	METAL CHIP 330 5%	1/10W
R3	1-216-037-00	METAL CHIP 330 5%	1/10W
R5	1-216-037-00	METAL CHIP 330 5%	1/10W
R6	1-216-081-00	METAL CHIP 22K 5%	1/10W
R7	1-216-037-00	METAL CHIP 330 5%	1/10W
R8	1-216-037-00	METAL CHIP 330 5%	1/10W
R9	1-216-081-00	METAL CHIP 22K 5%	1/10W
R10	1-216-037-00	METAL CHIP 330 5%	1/10W
R11	1-216-081-00	METAL CHIP 22K 5%	1/10W
R12	1-216-037-00	METAL CHIP 330 5%	1/10W
R13	1-216-037-00	METAL CHIP 330 5%	1/10W
R14	1-216-081-00	METAL CHIP 22K 5%	1/10W
R18	1-216-065-00	METAL CHIP 4.7K 5%	1/10W
R19	1-216-073-00	METAL CHIP 10K 5%	1/10W
R20	1-216-121-91	METAL CHIP 1.0M 5%	1/10W
R21	1-216-049-91	METAL CHIP 1.0K 5%	1/10W
R22	1-216-049-91	METAL CHIP 1.0K 5%	1/10W
R23	1-216-049-91	METAL CHIP 1.0K 5%	1/10W
R24	1-216-025-91	METAL CHIP 100 5%	1/10W
R25	1-249-417-11	CARBON 1K 5%	1/4W
R26	1-249-437-11	CARBON 47K 5%	1/4W
R27	1-249-429-11	CARBON 10K 5%	1/4W
R28	1-249-417-11	CARBON 1K 5%	1/4W
R29	1-216-061-00	METAL CHIP 3.3K 5%	1/10W
R30	1-216-186-00	METAL CHIP 330 5%	1/8W
R31	1-216-025-91	METAL CHIP 100 5%	1/10W
R32	1-249-425-11	CARBON 4.7K 5%	1/4W
R33	1-249-425-11	CARBON 4.7K 5%	1/4W
R34	1-216-065-00	METAL CHIP 4.7K 5%	1/10W
R35	1-216-214-00	METAL CHIP 4.7K 5%	1/8W
R36	1-216-025-91	METAL CHIP 100 5%	1/10W
R37	1-216-073-00	METAL CHIP 10K 5%	1/10W
R38	1-216-089-91	METAL CHIP 47K 5%	1/10W
R39	1-249-429-11	CARBON 10K 5%	1/4W
R42	1-216-073-00	METAL CHIP 10K 5%	1/10W
R43	1-216-042-00	METAL CHIP 510 5%	1/10W
R44	1-216-013-00	METAL CHIP 33 5%	1/10W
R45	1-249-423-11	CARBON 3.3K 5%	1/4W
R46	1-216-073-00	METAL CHIP 10K 5%	1/10W

Ref. No.	Part No.	Description				Remark
R47	1-216-097-91	METAL CHIP	100K	5%	1/10W	
R48	1-249-423-11	CARBON	3.3K	5%	1/4W	
R49	1-216-061-00	METAL CHIP	3.3K	5%	1/4W	
R50	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R51	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R53	1-249-429-11	CARBON	10K	5%	1/4W	
R54	1-249-399-11	CARBON	33	5%	1/4W	
R55	1-216-162-00	METAL CHIP	33	5%	1/10W	
R56	1-249-393-11	CARBON	10	5%	1/4W	
R91	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R92	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R93	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R94	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R99	1-249-399-11	CARBON	33	5%	1/4W	F
		< VARIABLE RESISTOR >				
RV41	1-238-601-11	RES, ADJ, CARBON 22K				
RV42	1-238-600-11	RES, ADJ, CARBON 10K				
		< TRANSFORMER >				
T1	1-409-505-11	COIL (ANT. SW3)				
T2	1-402-960-11	COIL (OSC SW3)				
		< TERMINAL >				
TM1	1-537-238-21	TERMINAL BOARD (ANTENNA)				
		< VIBRATOR >				
X21	1-760-549-11	VIBRATOR, CRYSTAL (4.5MHz)				
X41	1-760-220-11	FILTER, CERAMIC (10.7MHz)				
X42	1-527-981-00	FILTER, CERAMIC (450kHz)				
X43	1-577-075-11	OSCILLATOR, CERAMIC (19kHz)				
**********						
*	1-659-624-11	TRANSFORMER BOARD				
		**********				
	1-533-217-31	HOLDER, FUSE				
		< CAPACITOR >				
C616	1-164-159-21	CERAMIC	0.1uF		50V	
C1601	1-130-781-00	FILM	0.22uF	10%	100V	
C1602	1-130-781-00	FILM	0.22uF	10%	100V	
C1603	1-136-169-00	FILM	0.22uF	5%	50V	
C1604	1-136-169-00	FILM	0.22uF	5%	50V	
		< CONNECTOR >				
* CN1601	1-564-527-11	PLUG, CONNECTOR 12P				
CN1602	1-564-321-00	PIN, CONNECTOR 2P				

Ref. No.	Part No.	Description				Remark
		< DIODE >				
D1601	8-719-510-68	DIODE D5SBA20F01				
D1602	8-719-025-03	DIODE RBA-402-SL (TH)				
D1602	8-719-028-23	DIODE D3SBA20-4101 (EXCEPT TH)				
		< FUSE >				
⚠F1602	1-532-465-31	FUSE, TIME-LAG (3.15A 250V) (E, EA, SP, HK, IA, AR, PX)				
⚠F1603	1-532-506-31	FUSE, TIME-LAG (6.3A 250V) (EXCEPT US, CND)				
⚠F1603	1-533-310-11	FUSE, GLASS CYLINDRICAL (DIA.5) (6.3A 125V) (US, CND)				
⚠F1604	1-532-506-31	FUSE, TIME-LAG (6.3A 250V) (EXCEPT US, CND)				
⚠F1604	1-533-310-11	FUSE, GLASS CYLINDRICAL (DIA.5) (6.3A 125V) (US, CND)				
⚠F1605	1-532-465-31	FUSE, TIME-LAG (3.15A 250V) (EXCEPT US, CND)				
⚠F1605	1-533-419-11	FUSE, GLASS CYLINDRICAL (DIA.5) (4A 125V) (US, CND)				
⚠F1606	1-532-465-31	FUSE, TIME-LAG (3.15A 250V) (EXCEPT US, CND)				
⚠F1606	1-533-419-11	FUSE, GLASS CYLINDRICAL (DIA.5) (4A 125V) (US, CND)				
		< RESISTOR >				
⚠R1601	1-202-725-00	SOLID	3.3M	10%	1/2W (US, CND)	
⚠R1602	1-219-124-11	FUSIBLE	0.68	10%	1/4W (US, CND)	F
⚠R1603	1-219-120-11	FUSIBLE	0.15	5%	1/4W	F
⚠R1604	1-219-120-11	FUSIBLE	0.15	5%	1/4W	F
⚠R1605	1-217-637-00	FUSIBLE	1	5%	1/4W	F
		< SWITCH >				
⚠S1601	1-572-675-11	SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR) (E, EA, SP, HK, IA, AR, PX)				
		< TRANSFORMER >				
⚠T1601	1-429-298-11	TRANSFORMER, POWER (AR)				
⚠T1601	1-429-530-11	TRANSFORMER, POWER (AEP, UK, G, IT)				
⚠T1601	1-429-531-11	TRANSFORMER, POWER (E, AUS, SP, HK, IA, PX)				
⚠T1601	1-429-531-21	TRANSFORMER, POWER (EA, MY, TH)				
⚠T1601	1-429-532-11	TRANSFORMER, POWER (US, CND)				
**********						
		MISCELLANEOUS				
		**********				
3	1-751-086-11	WIRE (FLAT TYPE) (13 CORE) (US, CND, E2, AUS, AR, TH)				
3	1-773-012-11	WIRE (FLAT TYPE) (15 CORE) (AEP, UK, E3, PX, G, IT, EA, MY, SP, HK, IA)				
5	1-773-157-11	WIRE (FLAT TYPE) (21 CORE)				
6	1-769-977-11	WIRE (FLAT TYPE) (13 CORE)				
8	1-765-325-11	WIRE (FLAT TYPE) (11 CORE)				

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
9	1-776-442-11	WIRE (FLAT TYPE) (19 CORE)	
⚠58	1-569-007-11	ADAPTER, CONVERSION 2P (E3, PX, IA)	
⚠58	1-569-008-11	ADAPTER, CONVERSION 2P (EA, SP)	
⚠58	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (HK)	
257	1-452-538-11	MAGNET	
258	1-776-042-11	WIRE (FLAT TYPE) (8 CORE)	
⚠301	8-848-367-11	OPTICAL PICK UP KSS-213BA/F-NP	
302	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
⚠CNP1601	1-575-651-11	CORD, POWER (AEP, G, IT, EA, MY, SP, HK, AR)	
⚠CNP1601	1-575-653-11	CORD, POWER (E, IA, PX)	
⚠CNP1601	1-690-608-11	CORD, POWER (AUS)	
⚠CNP1601	1-690-609-21	CORD, POWER (US, CND)	
⚠CNP1601	1-751-326-31	CORD, POWER (TH)	
⚠CNP1601	1-751-520-21	CORD, POWER (UK)	
⚠F1602	1-532-465-31	FUSE, TIME-LAG (3.15A 250V) (E, EA, SP, HK, IA, AR, PX)	
⚠F1603	1-532-506-31	FUSE, TIME-LAG (6.3A 250V) (EXCEPT US, CND)	
⚠F1603	1-533-310-11	FUSE, GLASS CYLINDRICAL (DIA.5) (6.3A 125V) (US, CND)	
⚠F1604	1-532-506-31	FUSE, TIME-LAG (6.3A 250V) (EXCEPT US, CND)	
⚠F1604	1-533-310-11	FUSE, GLASS CYLINDRICAL (DIA.5) (6.3A 125V) (US, CND)	
⚠F1605	1-532-465-31	FUSE, TIME-LAG (3.15A 250V) (EXCEPT US, CND)	
⚠F1605	1-533-419-11	FUSE, GLASS CYLINDRICAL (DIA.5) (4A 125V) (US, CND)	
⚠F1606	1-532-465-31	FUSE, TIME-LAG (3.15A 250V) (EXCEPT US, CND)	
⚠F1606	1-533-419-11	FUSE, GLASS CYLINDRICAL (DIA.5) (4A 125V) (US, CND)	
FL501	1-517-483-11	INDICATOR TUBE, FLUORESCENT	
HP101	1-500-093-11	HEAD, MAGNETIC (PLAYBACK)	
HRPE101	1-500-094-11	HEAD, MAGNETIC (REC/PB/ERASE)	
M1	X-3371-223-1	MOTOR ASSY (CAPSTAN)	
M2	A-2004-410-A	MOTOR ASSY (TRIGGER)	
M101	X-4917-523-4	MOTOR ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY (SLED)	
M701	A-4672-004-A	MOTOR ASSY (TURN)	
M801	A-4672-004-A	MOTOR ASSY (SLED)	
M901	1-698-659-11	FAN, DC	
S101	1-572-085-11	SWITCH, LEAF (LIMIT)	
S811	1-473-335-11	ENCODER, ROTARY (BU, TRAY ADDRESS DET)	
⚠T1601	1-429-530-11	TRANSFORMER, POWER (AEP, UK, G, IT)	
⚠T1601	1-429-531-11	TRANSFORMER, POWER (E, AUS, SP, HK, IA, AR PX)	
⚠T1601	1-429-531-21	TRANSFORMER, POWER (EA, MY, TH)	
⚠T1601	1-429-532-11	TRANSFORMER, POWER (US, CND)	

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Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
		**********	
*	4-980-428-01	CUSHION (FRONT) (Malaysia product)	
*	4-980-429-01	CUSHION (REAR) (Malaysia product)	
*	4-982-547-01	CUSHION (FRONT) (Except Malaysia product)	
*	4-982-548-01	CUSHION (REAR) (Except Malaysia product)	

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****
HARDWARE LIST
****

#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#2	7-685-871-01	SCREW +BVTT 3X6 (S)	
#3	7-685-650-79	SCREW +BVTP 3X16 TYPE2 N-S	
#4	7-621-775-10	SCREW +B 2.6X4	
#5	7-621-255-15	SCREW +P 2X3	
#6	7-685-131-19	SCREW +BTP 2.6X4 TYPE2 N-S	
#7	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
#8	7-623-921-01	RING, RETAINING, CAPSTAN	
#9	7-621-775-00	SCREW +B 2.6X3	
#10	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	
#11	7-621-770-67	SCREW +BVTT 2.6X6 (S)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

9-960-537-11

Sony Corporation
Consumer A&V Products Company
Home A&V Products Div.

English
96C0990-1
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Quality Engineering Dept.

SS-H991

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
Tourist Model

This set is the speaker system in MHC-881, MHC-991AV, MHC-D7, MHC-G88 and MHC-G99AV.

SPECIFICATIONS

Speaker system	3-way system, magnetically shielded type
Speaker units	Woofer : 17cm dia., cone type
	Tweeter : 5cm dia., cone type
	Super tweeter : 2cm dia., dome type
Enclosure	Bass reflex
Nominal impedance	8 ohms
Dimensions	Approx. 220×325×275 mm (w/h/d)
	(8 3/4×12 7/8×10 7/8 in.)
Mass	Approx. 5kg (11lb) net per speaker

Design and specification subject to change without notice.

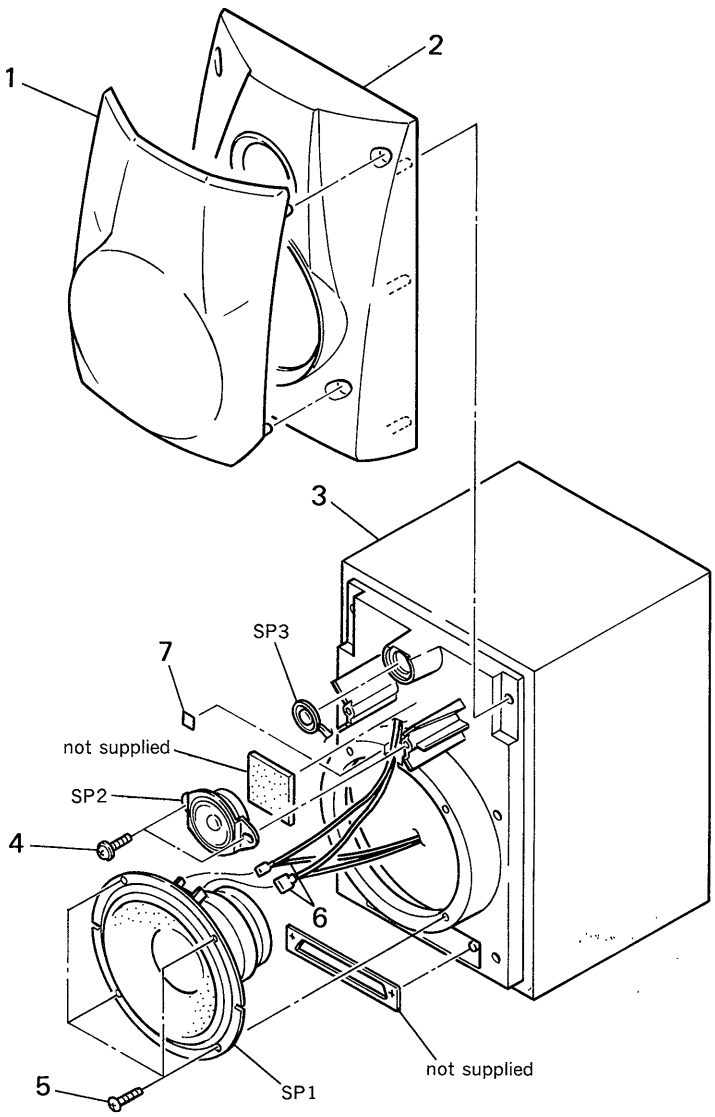
SPEAKER SYSTEM

SONY®

EXPLODED VIEW

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE)... (RED)
  ↑ ↑
  Parts Color Cabinet's Color



Ref. No.	Part No.	Description	Remark
1	X-4946-748-1	FRAME ASSY, GRILLE	
2	X-4946-745-1	PANEL ASSY, FRONT	
* 3	A-4361-900-A	CABINET ASSY, SPEAKER (including SP TERMINAL BOARD)	
4	3-703-564-01	SCREW, TAPPING	
5	4-874-614-11	SCREW, (4) (3.5X14), TAPPING	
6	1-776-511-11	CORD	
7	9-911-840-XX	PACKING	
SP1	1-505-228-11	SPEAKER (16CM)	
SP2	1-505-309-11	SPEAKER (5CM)	
SP3	1-504-826-11	SPEAKER (2CM)	

****

ACCESSORIES & PACKING MATERIALS

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	1-769-317-11	CORD, SPEAKER	
*	4-981-327-01	CUSHION	

9-960-539-11

Sony Corporation
Consumer A&V Products Company
Home A&V Products Div.

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Quality Engineering Dept.

SS-CN991

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
PX Model

This set is the speaker system in MHC-991AV/G99AV.

SPECIFICATIONS

Speaker system	Full range speaker system Magnetically shielded type
Speaker units	10 cm , cone type
Enclosure type	Bass reflex
Rated impedance	8 ohms
Dimensions	Approx. 280 × 110 × 175 mm (11 1/8 × 4 3/8 × 7 in)(w/h/d)
Mass	Approx. 1.5 kg (3 lb 5oz)

Design and specifications are subject to change without notice.

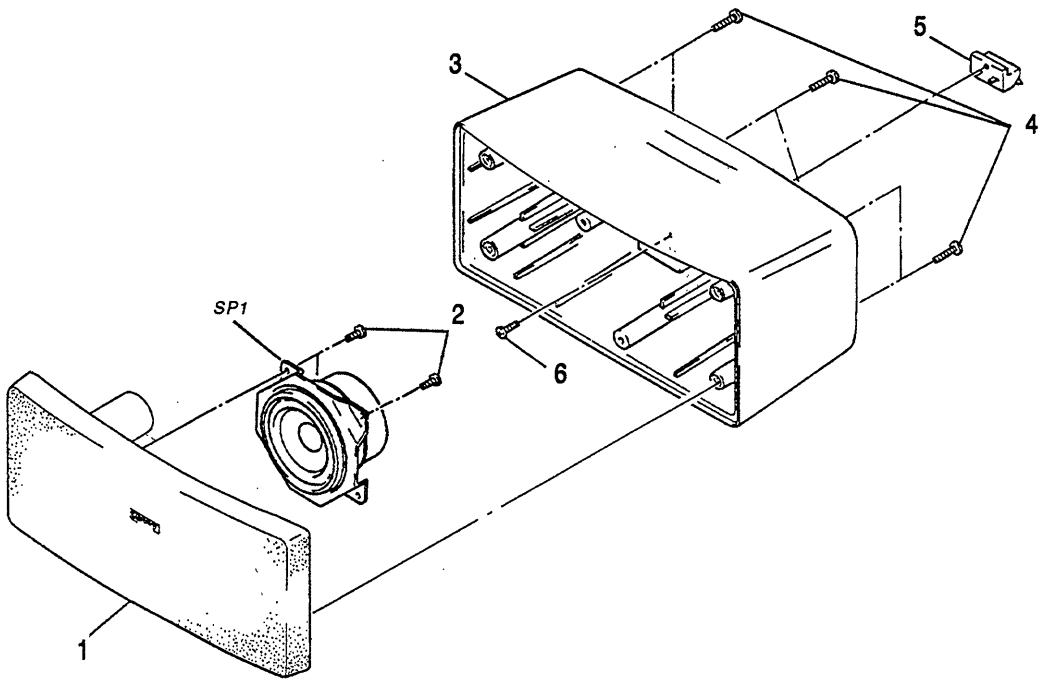
SPEAKER SYSTEM

SONY®

EXPLODED VIEW AND PARTS LIST

NOTE :

- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.



Ref. No.	Part No.	Description	Remark
1	X-4947-190-1	FRAME ASSY, FRONT	
2	7-685-660-11	SCREW +BVTP 4×10 TYPE 2	
3	4-982-147-01	CABINET	
4	7-685-663-79	SCREW +BVTP 4×16 TYPE 2	
5	1-537-775-11	TERMINAL BOARD	
6	7-685-661-79	SCREW +BVTP 4×12 TYPE 2	
SP1	1-505-312-11	SPEAKER (8cm)	

****

ACCESSORIES & PACKING MATERIALS

****

	1-769-433-21	CORD, SPEAKER	
	4-972-322-01	FOOT (Y)	
*	4-982-299-01	CUSHION (UPPER)	
*	4-982-300-01	CUSHION (LOWER)	

9-960-658-11

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Home A&V Products Div.

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